	מח	 IG K200	RO
DATE	1,5	10	ACTION
10/26/07	A	7	Tica
10/30/67	NOCH	GRail	Presence 10
10/31/07	GRAI	3.3.	I C/C accept
11/2/07	GRED	ADO	Pa Record
2-29-08	ADOV	CTOV	Po Nada Dill
	la	17/17	TO ESPICIONES IN
REFERENCE TO 3	Trust Art	5 = - 30 = 5	INCLUDING VARIANCES

F95587

JC &

APPL # 474769 i.D. # 29110

ORANGE COUNTY SANITATION DISTRICT 22212 BROCKHURST ST . HUNTINGTON BEACH .ICE 2935 BMP (D.



SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT 21865 Copley Drive, Diamond Bar, CA 91765

PERMIT TO OPERATE

Page 1 Permit No. F95587 A/N 474769

ID 29110

This initial permit must be renewed ANNUALLY unless the equipment is moved, or changes ownership. If the billing for the annual renewal fee (Rule 301.f) is not received by the expiration date, contact the District.

Legal Owner

or Operator:

ORANGE COUNTY SANITATION DISTRICT

P O BOX 8127

FOUNTAIN VALLEY, CA 92728-8127

Equipment Location:

22212 BROOKHURST ST, HUNTINGTON BEACH, CA 92646-8457

Equipment Description:

INTERNAL COMBUSTION ENGINE, NO. 2 AT PB-B, DETROIT DIESEL, 16 CYLINER, TURBOCHARGED, AFTERCOOLED, MODEL T163-7K16, 2935 BHP, SERIAL NUMBER DD5272000531, DIESEL -FUELED, DRIVING AN EMERGENCY ELECTRICAL GENERATOR.

Conditions:

- 1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
- THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
- 3. THIS ENGINE SHALL NOT OPERATE MORE THAN 200 HOURS IN ANY ONE YEAR, WHICH INCLUDES NO MORE THAN 50 HOURS IN ANY ONE YEAR FOR MAINTENANCE AND TESTING PURPOSES.
- 4. AN OPERATIONAL NON-RESETTABLE TOTALIZING TIME METER SHALL BE INSTALLED AND MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.
- 5. THE OPERATION OF THE ENGINE BEYOND 50 HOURS PER YEAR ALLOTTED FOR ENGINE MAINTENANCE AND TESTING SHALL BE ALLOWED ONLY IN THE EVENT OF A LOSS OF GRID POWER OR UP TO 30 MINUTES PRIOR TO A ROTATING OUTAGE, PROVIDED THAT THE ELECTRICAL GRID OPERATOR OR ELECTRIC UTILITY HAS ORDERED ROTATING OUTAGES IN THE CONTROL AREA WHERE THE ENGINE IS LOCATED OR HAS INDICATED THAT IT EXPECTS TO ISSUE SUCH AN ORDER AT A CERTAIN TIME, AND THE ENGINE IS LOCATED IN A UTILITY SERVICE BLOCK THAT IS SUBJECT TO THE ROTATING OUTAGE. ENGINE OPERATION SHALL BE TERMINATED IMMEDIATELY AFTER THE UTILITY DISTRIBUTION COMPANY ADVISES THAT A ROTATING OUTAGE IS NO LONGER IMMINENT OR IN EFFECT.
- 6. AN ENGINE OPERATING LOG SHALL BE MAINTAINED WHICH ON A MONTHLY BASIS SHALL LIST ALL ENGINE OPERATIONS IN EACH OF THE FOLLOWING AREAS:
 - A. EMERGENCY USE HOURS OF OPERATION
 - B. MAINTENANCE AND TESTING HOURS

FILE COPY



SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT 21865 Copley Drive, Diamond Bar, CA 91765

PERMIT TO OPERATE

Page 2 Permit No. F95587 A/N 474769

C. OTHER OPERATING HOURS (DESCRIBE THE REASON FOR OPERATION) IN ADDITION, EACH TIME THE ENGINE IS STARTED MANUALLY, THE LOG SHALL INCLUDE THE DATE OF OPERATION AND THE TIMER READING IN HOURS AT THE BEGINNING AND END OF OPERATION THE LOG SHALL BE KEPT FOR A MINIMUM OF FIVE CALENDAR YEARS PRIOR TO THE CURRENT YEAR AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST. THE TOTAL HOURS OF OPERATION FOR THE PREVIOUS CALENDAR YEAR SHALL BE RECORDED SOMETIME DURING THE FIRST 15 DAYS OF JANUARY OF EACH YEAR.

7. THE OPERATOR SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF RULES 431.2 AND 1470.

NOTICE

IN ACCORDANCE WITH RULE 206, THIS PERMIT TO OPERATE OR COPY SHALL BE POSTED ON OR WITHIN 8 METERS OF THE EQUIPMENT.

THIS PERMIT DOES NOT AUTHORIZE THE EMISSION OF AIR CONTAMINANTS IN EXCESS OF THOSE ALLOWED BY DIVISION 26 OF THE HEALTH AND SAFETY CODE OF THE STATE OF CALIFORNIA OR THE RULES OF THE AIR QUALITY MANAGEMENT DISTRICT. THIS PERMIT CANNOT BE CONSIDERED AS PERMISSION TO VIOLATE EXISTING LAWS, ORDINANCES, REGULATIONS OR STATUTES OF OTHER GOVERNMENT AGENCIES.

EXECUTIVE OFFICER

By Dorris M.Bailey/GR01

2/27/2008



South Coast Air Quality Management District

Form 400-A

Application For Permit To Construct and Permit To Operate

Mail Application To: P.O. Box 4944 Diamond Bar, CA 91765

Tel: (909) 396-3385

Section A: Operator Information				'n'		
Business Name of Operator To Appear						
Orange County Sanitation Dist 2. Valid AQMD Facility ID (Available on P		. Owner's Business Nan	ne (only	If different from Bu	usiness Name of Operator):	
issued by AQMD): 029110	enint or gyode	. Vene: 3 Duomess Num		The direction of	asiness runic of Operator).	
Section B: Equipment Location			Sec	tion C: Permit	Mailing Address	gia si a
Equipment Location Address: For equipment operated at various location	ns in AQMD's jurisdiction,	provide address of initial site	!		ondence Information: ne as equipment location address	
22212 Brookhurst Street Street Address		<u> </u>		344 Ellis Avent t Address	ue	
Huntington Beach	o. 92	646 _	For	untain Valley	CA 9270	08 _ 7018
City	CA, 92 State Zip Cod		City	31113111 731137	State Zip Cod	
County: O Los Angeles Orange (San Bernardino C) Riverside	Coun	ty: O Los Angele	es Orange San Bernardino	Riverside
Contact Name: Vladimir Kogan			Conta	act Name: Vladir	nir Kogan	
Contact Title: Senior Scientist	Phone: <u>(714</u>) 593-7085	Conta	act Title: Senior S	Scientist Phone: (714) 59	3-7085
Fax: (714) 962-8379 E-Ma	_{il:} vkogan@ocsd.	com	Fax:	(714) 962-83	79 _{E-Mail:} vkogan@	ocsd.com
Section D: Application Type T	he facility is in	ORECLAIM O Tit	le V		Title V Program (please chec	
6. Reason for Submitting Application (Se				7. Estimated S	tart Date of Operation/Construction (MM/	DD/YYYY):
O New Construction (Permit to Construct)	O Permitted Equipm Permit Approvat*	ent Altered/ Modified Withou	ut	8. Description	of Equipment: bustion Engine, Detroit Diesel, 16	cylinder
Equipment Operating Without A Permit or Expired Permit*	O Proposed Alteration	on/Modification to Permitted		turbocharged	I, aftercooled, Model TI63-7K16, 2 g an emergency electrical generat	935 BHP, Diesel
Administrative Change	Change of Condit	ion For Permit To Operate	/			
Equipment On-Site But Not Constructed or Operational	Change of Condit	ion For Permit To Construct			ment portable AND will it be operated at attons within AQMD's jurisdiction?	● No ○ Yes
Title V Application (Initial, Revisions, etc.) (Also complete Form 500-TV)	Change of Location	on-Moving to New Site			l equipment, how many additional application this application? (Form 400-A required for	v pach)
Compliance Plan		ermit/Application Number: ems in this column, you MUST pplication Number)			mall Business as per AQMD's Rule 102 de	
O Facility Permit Amendment	F21753	2(7971			s or less <u>and</u> total gross receipts are \$500,000 of ofit training center?)	or less, No O Yes
Registration/Certification		/ \			of Violation (NOV) or a Notice To Compl	(NC) been issued for
O Streamlined Standard Permit	•			this equipm		
* A Higher Permit Processing Fee applies to the		sk (Rule 301 (c) (1) (D)		<u> </u>	No O Yes If yes, provide NOV/NC	#
Section E: Facility Business Info				110.41	NAICC C. d.	
What type of business is being condu Sewage Treatment	cted at this equipment	location?	14.		lesses primary NAICS Code Istrial Classification System)?	221320
15. Are there other facilities in the SCAQN by the same operator?	ID jurisdiction operated	O No ⊙ Yes	16.	Are there any scho	ools (K-12) within a 1000-ft. radius of the al location?	● No ○ Yes
Section F: Authorization/Signatu	IFO I harahy cortify that at	information contained benefit	and info	omation submitted with	this application is true and correct	
17. Signature of Responsible Official:	are thought and a second	18. Title:			Check List	
mileadM	you	Manager, ECRA			Form(s) signed and dated by authorize Supplemental Equipment Form (400-	
19. Print Name:		20. Date:			CEQA Form (400-CEQA) attached	
Michael D. Moore		10/8/	0	<u> </u>	Payment for permit processing fee att Your application will be rejected if any of the	
AOMD APPLICATION/TRAC	EKING # TYPE	EQUIPMENT CATEGO		04	FEE SCHEDULE: 8 VALIDATION S 923.92	0-19-57 4/2
ENG. (A) RGCR ENG. A DATE DATE	R CLASS	ASSIGNMENT Unit Enginee	er	#\000	ONEY ORDER (AMOUNT) Trackli	ng #
South Coast Air Quality Management District,	rom 400-A (2001-05)	_				

(65071)

'07 OCT 19 P1:16

FACILITY INFORMATION

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Mail Application To: P.O. Box 4944 Diamond Bar, CA 91765

Tel: (909) 396-3385

www.aqmd.gov

The SCAQMD is required by state law, the California Environmental Quality Act (CEQA), to review discretionary permit project applications for potential air quality and other environmental impacts. This form is a screening tool to assist the SCAQMD in clarifying whether or not the project! has the potential to generate significant adverse environmental impacts that might require preparation of a CEQA document [CEQA Guidelines §15060(a)].2 Refer to the attached instructions for guidance in completing this form.3 For each Form 400-A application, also complete and submit one Form 400-CEQA. If submitting multiple Form 400-A applications for the same project at the same time, only one 400-CEOA form is necessary for the entire project. If you need assistance completing this form, contact Lori Inga at (909) 396-3109.

Busin	ess Name o	of Operato	r to Appear on the Permit:	Facility ID (6-Digit):
Orar	nge Cour	nty Sani	ation District	029110
Projec	ct Descripti	on:		
Cha	aga of ac	ndition	to an existing stationary amorgansy dispal angine parmit. T	be permitted allowance for maintenance and
			to an existing stationary emergency diesel engine permit. Tull be revised from 20 to 50 hours per year based on attac	
REV	EW FOR	EXEMP'	TION FROM FURTHER CEQA ACTION	. OK. ros weig, aims toke 1840 sij. Ok.
	"Yes" or "N			MA - 256 - 18211 - 1871
	Yes	No	Is this application for:	
A.	0	0	A CEQA and/or NEPA document previously or currently prepare permit cannot be issued until a Final CEQA document and Notice of Determin	
B.	0	•	A request for a change of permittee only (without equipment mo	difications)?
C.	0	•	Equipment certification or equipment registration (qualifies for Rule	222)?
D.	0	•	A functionally identical permit unit replacement with no increase	in rating or emissions?
E.	0	•	A change of daily VOC permit limit to a monthly VOC permit limit	1?
F.	0	•	Equipment damaged as a result of a disaster during state of eme	ergency?
G.	0	•	A Title V (i.e., Regulation XXX) permit renewal (without equipment r	nodifications)?
H.	0	0	A Title V administrative permit revision?	
J.	0	0	The conversion of an existing permit into an initial Title V permit	?
	s" is checke nis form.	d for any q	uestion above, your application does not require additional evaluation for CEQA	applicability. Skip to page 2, "SIGNATURES" and sign and
REVI	EW OF I	VPACTS	WHICH MAY TRIGGER CEQA	
	ete Sections it to this for		ecking "Yes" or "No" as applicable. To avoid delays in processing your application	on(s), explain all "Yes" responses on a separate sheet and
1	Yes	No	Section I - General	

Has this project generated any known public controversy regarding potential adverse impacts that may be

Controversy may be construed as concerns raised by local groups at public meetings; adverse media attention such as negative articles in

Will there be any demolition, excavating, and/or grading construction activities that encompass an area exceeding

Does this project include the open outdoor storage of dry bulk solid materials that could generate dust? If Yes,

newspapers or other periodical publications, local news programs, environmental justice issues, etc.

generated by the project?

Section II - Air Quality

20,000 square feet?

Is this project part of a larger project?

include a plot plan with the application package.

¹ A "project" means the whole of an action which has a potential for resulting in physical change to the environment, including construction activities, The project means the whole of an action which has a potential for resoluting in physical change to the environment, including construction activities, dearing or grading of land, improvements to existing structures, and activities or equipment involving the issuance of a permit. For example, a project might include installation of a new, or modification of an existing internal combustion engine, dry-cleaning facility, boiler, gas turbine, spray coating booth, solvent cleaning tank, etc.

2 To download the CEQA guidelines, visit http://ceres.ca.gov/env law/state.html.

¹ To download this form and the instructions, visit http://www.agmd.gov/cega or http://www.agmd.gov/permit

	Yes	No					
5.	0	•	Would this project result in noticeable off-si requirements? For example, compost materials or other types of green				•
			complaints subject to Rule 402 – Nuisance.	iciimasic (i	.e., iaimi cappings,	uee unimings, e.c., nave me p	oterinario generate coor
6.	0	0	Does this project cause an increase of emis-	sions fro	m marine vesse	ls, trains and/or airplanes?	,
7.	0	•	Will the proposed project increase the QUA by mobile vehicle to or from the site by greatattached Table 174				
			Section III – Water Resources				
8.	0	•	Will the project increase demand for water a The following examples identify some, but not all, typ generate steam; 2) projects that use water as part of production process; 4) projects that require new or ex exceeds the capacity of the local water purveyor to s existing water supply facilities.	es of proje the air poll opansion o	cts that may result ution control equip f existing sewage tr	in a "yes" answer to this question ment; 3) projects that require wa eatment facilities; 5) projects wi	n: 1) projects that ter as part of the nere water demand
9.	0	•	Will the project require construction of new water conveyance infrastructure? Examples of such projects are when water demands exceed the capacity of the local water purveyor to supply sufficient water for the project, or require new or modified sewage treatment facilities such that the project requires new water lines, sewage lines, sewage hook-ups, etc.				
			Section IV - Transportation/Circulation				
10.	- 1		Will the project result in (Check all that apply):				
	0	0	a. the need for more than 350 new employe	es?			
	0	•	b. an increase in heavy-duty transport truck traffic to and/or from the facility by more than 350 truck round-trips per day?				truck round-trips per
	0	•	c. increase customer traffic by more than 7				
	_		Section V - Noise			korospino di produtti	明朝25周周27年 期 666
11.	0_	0	Will the project include equipment that will g				
	<u></u>		Section VI - Public Services	-	ALLES SALES A		
12.			Will the project create a permanent need for that apply):	new or a	dditional public	services in any of the foll	owing areas (Check all
	0	•	a. Solid waste disposal? Check "No" if the proj	ected pote	ntial amount of was	tes generated by the project is t	ess than five tons per day,
	0	•	 b. Hazardous waste disposal? Check "No" if than 42 cubic yards per day (or equivalent in pounds.).	·		
			checked in the sections above, attach all pertinent info	rmation inc	luding but not limit	ed to estimated quantities, volur	nes, weights, etc.**
	ATURES	<u> </u>		E.	n: . %		<u> </u>
BEST	OF MY KNO	WLEDGE.	LL INFORMATION CONTAINED HEREIN AND INFOR I UNDERSTAND THAT THIS FORM IS A SCREENIN IN DETERMINING CEQA APPLICABILITY.				
SIGNA	TURE OF F	RESPONSI	BLE OFFICIAL OF FIRM:		TITLE OF RESP	ONSIBLE OFFICIAL OF FIRM: CRA	
TYPE	OR PRINT!	NAME OF R	RESPONSIBLE OFFICIAL OF FIRM:			S TELEPHONE NUMBER:	DATE Signed:
<u> </u>	ael D. M		(714) 5937-450 10/8/0				
SIGNA	TURE OF F	REPARER	LE PREPARED BY PERSON OTHER THAN RESPONSIBLE OFF	ICIAL OF FIF	M:	TITLE OF PREPARER:	
<u></u> _	<					Associate Engineer I	
1	OR PRINT I		PREPARER:		PREPARER'S TI	ELEPHONE NUMBER:	DATE Signed:

THIS CONCLUDES FORM 400-CEQA. INCLUDE THIS FORM AND THE ATTACHMENTS WITH FORM 400-A.

⁴ Table 1 – Regulated Substances List and Threshold Quantities for Accidental Release Prevention can be found in the Instructions for Form 400-CEQA.

TABLE 1.1 SUMMARY OF RESULTS

Parameter	Units	CAT 3512	DD 9163-7305	DD T163-7K16	
Stack Height Above Ground Level (1)	Ft	24.292	32.958	27.833	
Stack Inside Diameter	In	11.75	12.875	15.25	
Stack Flow Rate	ACFM	5,030	6,920	9,381	
Stack Flow Rate @ 68 deg F, 29.92 in Hg	DSCFM	1,886	3,600	4,332	
Stack Temp	Deg F	843	502	597	
Stack Moisture Content	% Voi	7.4	4.7	7.0	
Test Load	KW	440	386	1150	
Horsepower (Rated @ Full Load)	ВНР	1482	1515	2935	A
Horsepower (Estimated Actual Based on KW Output) (2)	ВНР	652	547	1688	57:5%
PM Concentration (3)	gr/DSCF	0.0224	0.0169	0.0103	
PM Mass Emissions (3)	Lb/Hr	0.36	0.52	0.38	
PM Mass Emissions (Based on Rated BHP) (3)	Gm/BHP-Hr	0.111	0.156	0.103	
PM Mass Emissions (Based on Estimated Actual BHP) (3)	Gm/BHP-Hr	10.252	0.434	0.059	
O ₂ Concentration	% vd	11.59	16.40	12.30	
CO ₂ Concentration	% vd	6.88	3.38	6.36	
NO _x Concentration	ppmvd	1727	550	1356	
NO _x Mass Emissions	Lb/Hr	23.33	14.18	42.08	
NO _x Mass Emissions (Based on Rated BHP)	Gm/BHP-Hr	7.142	4.247	6.504	
NO _x Mass Emissions (Based on Estimated Actual BHP)	Gm/BHP-Hr	16.233	11.762	11.308	
CO Concentration	ppmvd	242	105	79	
CO Mass Emissions	Lb/Hr	1.99	1.65	1.49	
CO Mass Emissions (Based on Rated BHP)	Gm/BHP-Hr	0.609	0.493	0.231	,
CO Mass Emissions (Based on Estimated Actual BHP)	Gm/BHP-Hr		1.367	0.401	Į.
TGNMEO Concentration	ppmv	83.5	96.6	79.5	
TGNMEO Mass Emissions	Lb/Hr	0.39	0.87	0.86	Į
TGNMEO Mass Emissions (Based on Rated BHP)	Gm/BHP-Hr	0.120	0.259	0.133	
TGNMEO Mass Emissions (Based on Estimated Actual BHP)	Gm/BHP-Hr	0.273	0.718	0.231	

Height was measured as best as possible; however ground level was sloped for CAT 3512 and DD 9163-7305 buildings.

⁽²⁾ Horsepower is estimated based on calculated efficiency of full load generator to horsepower rating. Manufacturer curves should be utilized to more accurately determine horsepower at the test load.

⁽¹⁾ PM data is for the front-half (probe, nozzle and filter components). Additional PM data for the condensable fraction is provided in Appendix A.

Mail Application To: SCAQMD P.O. Box 4944 Diamond Bar, CA 91765

Tel: (909) 396-3385

	anied by a completed Application for a Permit to Construct/Operate -Form	400A, Form CEQA, Plot Ptan and Stack Form	OV
Orange County S	(Business name of operator to appear on permit):		
	he equipment will be operated (for equipment which will be moved to varie	ious location in AOMD's jurisdiction, please list the initial location site):	
	t Street, Huntington Beach, CA 9264	odd roeddir iii rheirib o fariadadari, proedd iist dro iinddi roeddolf silefi.	
Section A: EQUIP			
	Manufacturer:	Model No.:	iğer.
	Detroit Diesel	TI63-7K16	
Internal Combustion	Serial No.:	Date of Manufacture:	_
Engine	DD5272000531	01/01/1999 mm/dd/yyyy For an ICE manufactured after	
	Manufacturer Maximum Rating:	Date of installation: 7/18/94, please provide manufacturer's specification and	d
	2935.00 ВНР @ 1800 RPM	01/01/2000 mm/dd/yyyy guarantee.	
ICE Emergency Function	Electrical Generator	Ol O Pump Driver O Compressor	
Type (Check All That Apply)	Stationary	of Equipment Used? 🔀 Within Facility 🗌 Off-Site 🔲 Renta ply)	ıł
Fuel	Diesel Oil No. 2	Other:	_
Cycle Type	○ Two Cycle		
Combustion Type	○ Lean Burn		
No. of Cylinders	○ Four ○ Six ○ Eight ○ Ten ○ Two	relve	_
Aspiration Type	 ○ Turbocharged ○ Turbocharged/Aftercooled ○ Naturally Aspirated 	☐ Timing Retarded ≥ 4° (relative to standard timing)	
	O Selective Catalytic Reduction (SCR)*	No Control	_
	Selective Non-catalytic Reduction (SNCR)*	Air Fuel Ratio Controller	
	Non-selective Catalytic Reduction (NSCR)	Other (specify)	
Air Pollution Control (if applicable)	* Separate application is required. Model No.:		
	manuacturer.		
	If already permitted, indicate Permit No. F21753	Device No. 2 at PB-B	
Section B: OPERA	TION INFORMATION:		_
Fuel Consumption	Maximum Rated load: gal./hr. OR cu. ft./hr	Average Load: gal./hr. or cu. ft/hr.	
	Normal: hours/day d	days/weekweeks/yr.	_
Operating Schedule	Maximum: hours/day c	days/week weeks/yr.	
	Testing & Maintenance: hours/year		

CONFIDENTIAL INFORMATION

Under the California Public Records Act, all information in your permit application will be considered a matter of public record and may be disclosed to a third party. If you wish to keep certain items as confidential, please complete the following steps:

- (a) Make a copy of any page containing confidential information blanked out. Label this page "public copy."
 (b) Label the original page "confidential." Circle all confidential items on the page.
 (c) Prepare a written justification for the confidentiality of each confidential item. Append this to the confidential copy.

	(1) Select yea	r of manufacture	and rated horse	power.			
Engine Data		ctual emission figu is, select Spark Ig		facturing specifications	(if available) for the R	ated Power selected. If e	ngine fuel is LPG or
				al combustion engine (IC manufacturer's specifica		ate of California or EPA's	Non-Road Emission
2	Rated Power	Year	Figures	Carbon Monoxide (grams/bhp-hr)	Hydrocarbons (grams/bhp-hr)	Oxides of Nitrogen (grams/bhp-hr)	Particulate Matter (grams/bhp-hr)
Compressor Igniti	on						
	50 – 750 H.P.						
	0	50 - 100 H.P.	BACT	8.5	1.0	6.9	0.38
		30 - 100 11.1 .	Actual				
	0	100 - 175 H.P.	BACT	8.5	1.0	6.9	0.38
		100 - 17511.7	Actual				
		175 - 750 H.P.	BACT	2.6	1.0	3.8	0.15
	0	175 - 750 H.F.	Actual				
	751 and greater	н.р					
		2000 and	BACT	8.5	1.0	6.9	0.38
	0		Actual	****			

		Figures	Voc	NOx	CO
Spark Ignition		For natural gas fired	or LPG. The ICE must mee	t the requirements for E	ACT as listed below.
		BACT	1.5 grams/bhp-hr	1.5 grams/bhp-hr	2.0 grams/bhp-hr
	O	Actual			

Section C: APPLICANT CERTIFICATION STATEMENT I hereby certify that all information contained benefit and information submitted with this appl		
SIGNATURE OF PREPARER.	TITLE OF PREPARER:	
	Associate Engineer III	
CONTACT PERSON FOR INFORMATION ON THIS EQUIPMENT:	CONTACT PERSON'S TELEPHONE NUMBER	DATE SIGNED:
Vladimir Kogan	(714) 593-7085	9/6/07



Official Use Only

Engr. Ini.	
AM	
Appin Date:	
Class	

Data Input

Applicant	Orange County Sanitation District			
Mailing Address	10844 Ellis Avenue, Fountain Valley, CA 92708			
Equipment Location	22212 Brookhurs	st Street, Huntington Beach, CA 9264	Equipment Type	Fixed site
	Manufacturer:	Detroit Diesel		
### 1	Model No:	TI63-7K16		
	Serial No.:	DD5272000531		
Equipment Description	Manufacturer Date:	01/01/1999		
	Installation Date:	01/01/2000		
	Cylinders:	Sixteen		
	HP Rating:	2935.00		

1.4	Turbocharged	Turbocharged/Aftercooled	Naturally Aspirated
Aspiration Type	0	X	0
	Turbocharged/Aftercooled		

	Generator	Compressor	Pump
Driving (ICE Emergency Function)	X	0	0
	Electrical Generator		

	VOC	NOx	CO	PM			
Emission Factors, g/HP-hr							
	(Note: Emission factors taker	(Note: Emission factors taken from engine manufacturer specs included with application					

	Yes	No		
Retard Timing			-	
<u> </u>	 			

	Hrs/Day Max.	Hrs/Month Max	
Operating Schedule	Hrs/Day Ave.	Wks/Yr	
Operating Schedule	Days/Wk.		
	Days/Mo	 	



Days.Mo.

Wks/Yr.

NOx

No

NOx

Hrs/Month Max.

VOC

Yes

VOC

1.000

Official Use Only

PM

PM

1.000

PM10

PM10

1.000

		AN:		
2935.00			 	
0.0022046				
Hrs/Day Max.				
Hrs/Day Avg.				
Days/Wk.				
-	 -1			

CO

CO

SOx

0.160

SOx

1.000

Computations

Given

ELECTRICAL HP.

G to Ib conversion factor

Operating Schedule

Emission Factors

Retard Timing

Emission Correction Factor

Comp	utations								
27777 27777 27777 27777				VOC	NOX	SOx	CO	PM	PM10
			Emission factor, g/HP-hr			0.160			
		211							
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		lb/hr.			1.035			
		- THE TAX	lb/day Max.				·	·	
			lb/day Avg.						
			lb/yr.						

FEE DATA - SUMMARY SHEET

Application No.		474700			IRS/SS No:	
Application No		474769				
Previous Application	No:	357971			Previous Permit No:	F21753
Company Name:	ORANGE	COUNTY SANITA	TION DISTRICT		Facility	ID: 29110
Equipment Street:	22212 BF	ROOKHURSTST , H	IUNTINGTON BEACH CA	92646		
Equipment Desc :	ICE (>5	00 HP) EM ELEC G	EN DIESEL			
Equipment Type :	BASIC				Fee Charged	·
B-CAT NO. :	043902		C-CAT NO:		Fee Sched	ule: B
Facility Zone :	18		Deemed Compl. Date:	10/31/2007	Public Noti	ice: NO
••		F CONDITIONS, (Po D, Recommended b				Penalty: Permit Unit:
Air quality Analysis					Filing Fee Pai	d: \$0.00
E.I.R				Per	mit Processing Fee Pai	d: \$923.92
Health Risk Assessm	nent				Permit Processing Fe Calculated	
Significant Project					Permit Processir	
Expedited Processing	g		Hours:		Fee Adjustmer	11:
Source Test Review			Hours:			
Time & Material			Hours:			
					Total Additional Fee	e: \$0.00
					A states and other and	e: \$0.00
					Additional Charg	e. \$0.00

RECOMMENDED BY: GAURANG RAWAL

DATE: 11/02/2007

DATE: 2/28/07

^{*} ADJUSTED FOR SMALL BUSINESS, IDENTICAL EQUIPMENT AND P/O NO P/C PENALTY

SCAQMD PERMIT PROCESSING SYSTEM (PPS)

AEIS DATA SHEET

Company Name: ORANGE COUNTY SANITATION DISTRICT

Facility ID: 29110

Equipment Address: 22212 BROOKHURST ST

HUNTINGTON BEACH CA 92646

Application Number: 474769

Equipment B-Cat: 043902

Equipment C-Cat:

Estimated Completion Date: 02/27/08

Equipment Type: Basic

Equipment Description: ICE (>500 HP) EM ELEC GEN DIESEL

-		Emis	sions
	Emittants	R1 LB/HR	R2 LB/HR
	со	6.03	6.03
	NOX	46.74	46.74
	PM10	0.64	0.64
	ROG	2.87	2.87
	sox	0.03	0.03

Applicable Rules		
1470	06/01/2007	Requirements for Stationary Diesel-Fueled Internal Combustion and Other
401	11/09/2001	Visible Emissions
402	05/07/1976	Nuisance
404	02/07/1986	Particulate Matter - Concentration
431.2	09/15/2000	Sulfur Content of Liquid Fuels

	Mon	Tue	Wed	Thu	Fri	Sat	Sun	
Daily Start Times :	00:00	00:00	00:00	00:00	00:00	00:00	00:00	
Daily Stop Times :	01:00	00:00	00:00	00:00	00:00	00:00	00:00	

User's Initials : GR01

Date: 02/27/08

Supervisor's Name : CO1

Review Date : 2+2807

NSR DATA SUMMARY SHEET

Application No:

474769

Application Type:

Change of Conditions

Application Status:

PROCESSING

Previous Apps, Dev, Permit #: 357971, 0 - ICE-PPS, NONE

Company Name:

ORANGE COUNTY SANITATION DISTRICT

Company ID:

29110

Address: RECLAIM: 22212 BROOKHURST ST, HUNTINGTON BEACH, CA

RECLAIM Zone:

NO

01

Air Basin:

SC

V:

18 NO

Device ID:

0 - ICE-PPS

Estimated Completion Date: 12-30-2007

Heat Input Capacity:

0 Million BTU/hr

Priority Reserve:

NONE - No Priority Access Requested

Recommended Disposition: 31 - PERMIT TO OPERATE GRANTED

PR Expiration:

School Within 1000 Feet: NO Operating Weeks Per Year: 50

Operating Days Per Week: 1

Monday Operating Hours: 00:00 to 01:00 Tuesday Operating Hours: 00:00 to 00:00 Wednesday Operating Hours: 00:00 to 00:00 Thursday Operating Hours: 00:00 to 00:00

Eriday Operating Hours: 00:00 to 00:00 Irday Operating Hours: 00:00 to 00:00 Sunday Operating Hours: 00:00 to 00:00

Emittant:

CO

BACT:

Cost Effectiveness:

NO

Source Type:

MAJOR

Emis Increase:

0

Modeling:

N/A

Public Notice:

N/A

CONTROLLED EMISSION

6.03 lbs/hr

Max Hourly:

Max Daily:

6.03 lbs/day

UNCONTROLLED EMISSION Max Hourly:

6.03 lbs/hr

Max Daily:

24.12 lbs/day

CURRENT EMISSION

District Exemption:

BACT 30 days Avg:

1 lbs/day

Annual Emission:

301.5 lbs/yr None

Emittant:

NOX

BACT:

Cost Effectiveness:

NO

Source Type:

MAJOR

Emis Increase:

0

Modeling:

Public Notice:

N/A

CONTROLLED EMISSION

N/A

Max Hourly:

46.74 lbs/hr

Max Daily:

46.74 lbs/day

UNCONTROLLED EMISSION

Max Hourly:

46.74 lbs/hr 186.96 lbs/day

Max Daily:

CURRENT EMISSION

BACT 30 days Avg:

7 lbs/day

Annual Emission: trict Exemption:

2337 lbs/yr

None

Emittant:

PM10

BACT:

Cost Effectiveness:

NO

Source Type:

MINOR

Emis Increase:

0

Modeling:

N/A

Public Notice: CONTROLLED EMISSION

N/A

Max Hourly:

0.64 lbs/hr

Max Daily:

0.64 lbs/day

UNCONTROLLED EMISSION

Max Hourly:

0.64 lbs/hr

Max Daily:

2.56 lbs/day

CURRENT EMISSION

BACT 30 days Avg: Annual Emission:

0 lbs/day 32 lbs/yr

District Exemption:

None

Emittant:

ROG

BACT:

Cost Effectiveness:

NO

Source Type:

MINOR

Emis Increase:

0

Modeling:

N/A

Public Notice:

N/A

CONTROLLED EMISSION Max Hourly:

2.87 lbs/hr

Max Daily:

2.87 lbs/day

UNCONTROLLED EMISSION

Max Hourly:

2.87 lbs/hr

Max Daily:

11.48 lbs/day

CURRENT EMISSION

BACT 30 days Avg: Annual Emission:

0 lbs/day 143.5 lbs/yr

District Exemption:

None

Emittant:

SOX

BACT:

Cost Effectiveness:

NO

Source Type:

MINOR

Emis Increase:

0

Modeling:

N/A

Public Notice: CONTROLLED EMISSION

N/A

Max Hourly:

0.03 lbs/hr

Max Daily:

0.03 lbs/day

UNCONTROLLED EMISSION

Max Hourly: Max Daily:

0.03 lbs/hr 0.12 lbs/day

CURRENT EMISSION

BACT 30 days Avg:

0 lbs/day

Annual Emission: strict Exemption:

1.5 lbs/yr None

SUPERVISOR'S APPROVAL:

COI

SUPERVISOR'S REVIEW DATE: 12007

Processed By: amird 2/27/2008 10:11:04 AM

PERMIT TO OPERATE

This initial permit must be renewed ANNUALLY unless the equipment is moved, or changes ownership. If the billing for the annual renewal fee (Rule 301.f) is not received by the expiration date, contact the District.

Legal Owner

ID 29110

or Operator:

ORANGE COUNTY SANITATION DISTRICT

P O BOX 8127

FOUNTAIN VALLEY, CA 92728-8127

Equipment Location:

22212 BROOKHURST ST, HUNTINGTON BEACH, CA 92646-8457

Equipment Description:

INTERNAL COMBUSTION ENGINE, NO. 2 AT PB-B, DETROIT DIESEL, 16 CYLINER, TURBOCHARGED, AFTERCOOLED, MODEL T163-7K16, 2935 BHP, SERIAL NUMBER DD5272000531, DIESEL -FUELED, DRIVING AN EMERGENCY ELECTRICAL GENERATOR.

Conditions:

- 1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
- 2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
- 3. THIS ENGINE SHALL NOT OPERATE MORE THAN 200 HOURS IN ANY ONE YEAR, WHICH INCLUDES NO MORE THAN 50 HOURS IN ANY ONE YEAR FOR MAINTENANCE AND TESTING PURPOSES.
- 4. AN OPERATIONAL NON-RESETTABLE TOTALIZING TIME METER SHALL BE INSTALLED AND MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.
- 5. THE OPERATION OF THE ENGINE BEYOND 50 HOURS PER YEAR ALLOTTED FOR ENGINE MAINTENANCE AND TESTING SHALL BE ALLOWED ONLY IN THE EVENT OF A LOSS OF GRID POWER OR UP TO 30 MINUTES PRIOR TO A ROTATING OUTAGE, PROVIDED THAT THE ELECTRICAL GRID OPERATOR OR ELECTRIC UTILITY HAS ORDERED ROTATING OUTAGES IN THE CONTROL AREA WHERE THE ENGINE IS LOCATED OR HAS INDICATED THAT IT EXPECTS TO ISSUE SUCH AN ORDER AT A CERTAIN TIME, AND THE ENGINE IS LOCATED IN A UTILITY SERVICE BLOCK THAT IS SUBJECT TO THE ROTATING OUTAGE. ENGINE OPERATION SHALL BE TERMINATED IMMEDIATELY AFTER THE UTILITY DISTRIBUTION COMPANY ADVISES THAT A ROTATING OUTAGE IS NO LONGER IMMINENT OR IN EFFECT.
- 6. THIS ENGINE SHALL NOT BE USED AS PART OF A DEMAND RESPONSE PROGRAM USING INTERRUPTIBLE SERVICE CONTRACT IN WHICH A FACILITY RECEIVES A PAYMENT OR REDUCED RATES IN RETURN FOR REDUCING ITS ELECTRIC LOAD ON THE GRID WHEN REQUESTED TO SO BY THE UPILITY OR THE GRID OPERATOR.

deleted un pps

COT

PERMIT TO OPERATE



AN ENGINE OPERATING LOG SHALL BE MAINTAINED WHICH ON A MONTHLY BASIS SHALL LIST ALL ENGINE OPERATIONS IN EACH OF THE FOLLOWING AREAS:

- A. EMERGENCY USE HOURS OF OPERATION
- B. MAINTENANCE AND TESTING HOURS
- C. OTHER OPERATING HOURS (DESCRIBE THE REASON FOR OPERATION) IN ADDITION, EACH TIME THE ENGINE IS STARTED MANUALLY, THE LOG SHALL INCLUDE THE DATE OF OPERATION AND THE TIMER READING IN HOURS AT THE BEGINNING AND END OF OPERATION THE LOG SHALL BE KEPT FOR A MINIMUM OF FIVE CALENDAR YEARS PRIOR TO THE CURRENT YEAR AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST. THE TOTAL HOURS OF OPERATION FOR THE PREVIOUS CALENDAR YEAR SHALL BE RECORDED SOMETIME DURING THE FIRST 15 DAYS OF JANUARY OF EACH YEAR.
- THE OPERATOR SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF RULES 431.2 AND 1470.

NOTICE

IN ACCORDANCE WITH RULE 206, THIS PERMIT TO OPERATE OR COPY SHALL BE POSTED ON OR WITHIN 8 METERS OF THE EQUIPMENT.

THIS PERMIT DOES NOT AUTHORIZE THE EMISSION OF AIR CONTAMINANTS IN EXCESS OF THOSE ALLOWED BY DIVISION 26 OF THE HEALTH AND SAFETY CODE OF THE STATE OF CALIFORNIA OR THE RULES OF THE AIR QUALITY MANAGEMENT DISTRICT. THIS PERMIT CANNOT BE CONSIDERED AS PERMISSION TO VIOLATE EXISTING LAWS, ORDINANCES, REGULATIONS OR STATUTES OF OTHER GOVERNMENT AGENCIES.

EXECUTIVE OFFICER

By Dorris M.Bailey/GR01

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT PAGE 1 of 2 A/N 474769 ENGINEERING AND COMPLIANCE PROCESSED BY GCR CHECKED BY APPLICATION PROCESSING AND CALCULATIONS DATE 11/2/2007

Applicant's Name:

ORANGE CO. SAN DIST (OCSD)

Mailing Address:

10844 ELLIS AVE

FOUNTAIN VALLEY, CA 92708

Equipment Location:

22212 HUNTINGTON ST, HUNTINGTON BEACH, CA 92646

Equipment Description:

INTERNAL COMBUSTION ENGINE

MANUFACTURER:

DETROIT DIESEL #2

MODEL NO.:

T163-7K16

FUELED WITH:

DIESEL

DRIVING:

EMERGENCY GENERATOR

SERIAL NO.:

NA. DD5272000531

CYLINDERS:

16

ASPIRATION:

TURBOCHARGED AND AFTERCOOLED

HP RATING:

2935

HISTORY/PROCESS DESCRIPTION:

Application date:

10/19/2007

Class:

3

The application was filed for change of permit condition for R1470 Compliance. The company conducted source tets to allow more hours for testing and maintenance. With 0.103gm/bhp-hr of PM, the company is allowed 50 hrs. PM test results are on file and were reviewed.

CALCULATIONS:

See ATTACHMENT A.

EVALUATION:

Rule 212:

This is not a significant project, no school within 1000', emis below daily threshold. Public notice is not required.

Rule 401:

Based on experience with similar equipment, this engine is expected to comply with the visible emission limits.

Rule 402:

Based on experience with similar equipment, nuisance complaints are not expected.

Rule 404:

Based on experience with similar equipment, compliance with this rule is expected.

Rule 431.2:

Diesel fuel supplied to this equipment must contain 0.0015% or less sulfur by weight. Compliance is expected.

REGULATION XIII: New Source Review (Amended December 6, 2002)

There is reduction in PM emission. Therefore, the requirements of this rule do not apply.

RULE 1401: Exempt as per section (g)(1)(F)

Rule 1470: Equipment can operate up to 30 hrs/yr for maintenance and testing based on S/T PM result of 0.103 gm/bhp-hr, Rule 1470 (3) (C) (ii) (I), amended June 1, 2007. Compliance is expected. Engine can rulet RIYTO requirements for DRP-ISC engine CAT

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT	PAGE 2	of 2
	A/N	474769
ENGINEERING AND COMPLIANCE	PROCESSED BY	GCR
	CHECKED BY	
APPLICATION PROCESSING AND CALCULATIONS	DATE	11/2/2007

DISCUSSIONS:

Based on the information submitted with the application, the engine will operate:

[] in violation of BACT.

[X] in compliance with all the applicable Rules and Regulations of the District.

CONDITIONS

- 1 OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED.
- 2 THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITIONS AT ALL TIMES.

REFER TO SAMPLE PERMIT FOR OTHER CONDITIONS.

474769

Emergency ICEs

Given:

HP	2,935
g to lb conversion factor	0.0022046
Operating schedule	
hrs/day Max.	1
hrs/day Avg.	1
days/wk	1
hrs/month Max.	4
wks/yr	50

	VOC	NOx	SOx	CO	PM	PM10
Emission factors			0.0049		0.103	0.10

_	Yes	No
Retard Timing	0	X

	VOC	NOx	SOx	CO	PM	PM10
Emission correction factor	1	1	1	1	1	l

Computations:

	VOC	NOx	SOx	CO	PM	PM10
Emission factor, g/HP-hr	0	0.00	0.0049	0.00	0.103	0.10
lb/hr	0.00	0.00	0.03	0.00	0.67	0.64
lb/day Max.	0	0	0	0	1]
lb/day Avg.	0	0	0	0	0	0
lb/yr	-	-	1.62	-	33.99	32.63

VOC= 2.87 lbs/hr, NOx= 46.74 lbs/hr, and CO = 6.03 lbs/hr, kept same as under previous PO F21753

Data Inputs

ENGR. INI.	GCR
A/N	474769
Appin Date:	10/19/2007
Class:	3

Applicant: Mailing address:

ORANGE CO. SAN DIST (OCSD)

10844 ELLIS AVE

FOUNTAIN VALLEY, CA 92708

Equipment Address:

22212 HUNTINGTON ST. HUNTINGTON BEACH, CA 92646

MANUFACTURER:

MODEL NO.:

SERIAL NO.:

CYLINDERS: HP RATING:

DETROIT DIESEL T163-7K16 DD5272 NA 000531 16 2935 #2

	Turbocharged/	Naturally Aspirated		
Turbocharged	Aftercooled			
	X			

TURBOCHARGED AND AFTERCOOLED

Driving:

Generator	Compressor	Pump
X		- -

GENERATOR

	VOC	NOx	СО	PM*
Emission Factors, g/HP-hr				0.103
AP-42				* S/test

 Yes
 No

 Retard Timing
 0
 X

Operating schedule

hrs/day Max. hrs/day Avg. days/wk hrs/month Max. wks/yr

(2000)	 1	********	######################################
	1		
	1		
	4		
	50		

SUMMARY SHEET DATA NSR

Application No:

357971

Application Type:

Form 400A-R2 Registration

Application Status:

PENDAPPRV

Previous Apps, Dev, Permit #: NONE

Company Name:

ORANGE, COUNTYOF - SANITATION DISTRICT

29110 Company ID:

22212 BROOKHURST ST, HUNTINGTON BEACH, CA Address: NO

RECLAIM: 01 **RECLAIM Zone:** SC Air Basin: 18 Zone:

Title V:

YES

Device ID:

Estimated Completion Date: 11-05-1999

Heat Input Capacity: Million BTU/hr 0

NONE - No Priority Access Requested Priority Reserve:

31 - PERMIT TO OPERATE GRANTED Recommended Disposition:

PR Expiration:

School Within 1000 Feet: NO 50 Operating Weeks Per Year: Operating Days Per Week: 1

Monday Operating Hours: 08:00 to 12:00

Tuesday Operating Hours: to 00:00 00:00 to 00:00 00:00 Wednesday Operating Hours: to 00:00 Thursday Operating Hours: 00:00 Friday Operating Hours: 00:00 to 00:00

00:00 to 00:00 Saturday Operating Hours: to 00:00 Sunday Operating Hours: 00:00

Emittant:

BACT:

Cost Effectiveness:

Source Type:

Emis Increase: Modeling:

Public Notice:

CONTROLLED EMISSION

Max Hourly:

Max Daily:

UNCONTROLLED EMISSION

Max Hourly:
.Max Daily:

CURRENT EMISSION

BACT 30 days Avg:

Annual Emission:

District Exemption:

CO

NO

MAJOR

3 lbs/day

N/A

NA

6.03 lbs/hr

24.12 lbs/day

6.03 lbs/hr

24.12 lbs/day

3 lbs/day

175 lbs/yr

1304(a)(4)-10/12/1995-Emergency Equipment

Emittant:

BACT:

Cost Effectiveness:

Source Type:

Emis Increase:

Modeling:

Public Notice:

CONTROLLED EMISSION

Max Hourly:

Max Daily:

UNCONTROLLED EMISSION

Max Hourly:

Max Daily:

CURRENT EMISSION

BACT 30 days Avg:

Annual Emission:

District Exemption:

NOX

NO

MAJOR

27 lbs/day

N/A

NA

46.74 lbs/hr

186.96 lbs/day

46.74 lbs/hr

186.96 lbs/day

27 lbs/day

1355 lbs/yr

1304(a)(4)-10/12/1995-Emergency Equipment

Emittant:	PM
BACT:	
Cost Effectiveness:	NO
Source Type:	MINOR
Emis Increase:	0 lbs/day
Modeling:	N/A
Public Notice:	NA
CONTROLLED EMISSION	
Max Hourly:	0.44 lbs/hr
Max Daily:	1.76 lbs/day
UNCONTROLLED EMISSION	· -
Max Hourly:	0.44 lbs/hr
Max Daily:	1.76 lbs/day
CURRENT EMISSION	
BACT 30 days Avg:	0 lbs/day
Annual Emission:	12.5 lbs/yr
District Exemption:	None
DIRCLICE EYEMPETON:	110110

PM10 Emittant: BACT: Cost Effectiveness: NO · MINOR Source Type: 0 lbs/day Emis Increase: N/A Modeling: NA Public Notice: CONTROLLED EMISSION 0.42 lbs/hr Max Hourly: 1.68 lbs/day Max Daily: UNCONTROLLED EMISSION 0.42 lbs/hr Max Hourly: Max Daily: 1.68 lbs/day

0 lbs/day

12 lbs/yr

None

CURRENT EMISSION

District Exemption:

BACT 30 days Avg:

Annual Emission:

ROG Emittant: BACT: NO Cost Effectiveness: MINOR Source Type: 2 lbs/day Emis Increase: N/A Modeling: NA Public Notice: CONTROLLED EMISSION 2.87 lbs/hr Max Hourly: 11.48 lbs/day Max Daily: UNCONTROLLED EMISSION 2.87 lbs/hr Max Hourly: 11.48 lbs/day Max Daily: CURRENT EMISSION BACT 30 days Avg: 2 lbs/day 83 lbs/yr Annual Emission: 1304(a)(4)-10/12/1995-Emergency Equipment District Exemption: SOX Emittant: BACT: NO. Cost Effectiveness: MINOR Source Type: Emis Increase: 1 lbs/day N/A Modeling: NA Public Notice: CONTROLLED EMISSION Max Hourly: 1.19 lbs/hr 4.76 lbs/day Max Daily: UNCONTROLLED EMISSION Max Hourly: 1.19 lbs/hr 4.76 lbs/day Max Daily: CURRENT EMISSION 1 lbs/day BACT 30 days Avg: Annual Emission: 34 lbs/yr 1304(a)(4)-10/12/1995-Emergency Equipment District Exemption:

SUPERVISOR'S REVIEW DATE: 8001

Processed By: gaurangr 8/17/99 1:10:58 PM

SUPERVISOR'S APPROVAL:



SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT 21865 East Copley Drive, Diamond Bar, CA 91765

PERMIT TO CONSTRUCT/OPERATE

page 1 Permit No. R-F21753 A/N 357971

This initial permit must be renewed ANNUALLY unless the equipment is moved, or changes ownership. If the billing for annual renewal fee (Rule 301.f) is not received by the expiration date, contact the District.

LEGAL OWNER

ID 029110

OR OPERATOR:

ORANGE, COUNTYOF - SANITATION DISTRICT

P O BOX 8127

FOUNTAIN VALLEY, CA 92728-8127

Equipment Location:

22212 BROOKHURST ST, HUNTINGTON BEACH, CA 92646-8457

Equipment Description:

INTERNAL COMBUSTION ENGINE, DETROIT DIESEL, 16 CYLINDER, TURBOCHARGED, AFTERCOOLED, MODEL T163-7K16, 2935 BHP, DIESEL-FUELED, DRIVING AN EMERGENCY ELECTRICAL GENERATOR.

Conditions:

- 1) OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
- 2) THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
- THIS ENGINE SHALL NOT BE OPERATED MORE THAN 200 HOURS IN ANY CALENDAR YEAR.
- 4) A NON-RESETTABLE TOTALIZING TIMER SHALL BE INSTALLED AND MAINTAINED, IN GOOD OPERATING CONDITION, TO INDICATE THE ENGINE ELAPSED OPERATING TIME.
- 5) AN ENGINE OPERATING LOG, LISTING THE DATE OF OPERATION, THE ELAPSED TIME, IN HOURS, AND THE REASON FOR OPERATION SHALL BE KEPT AND MAINTAINED ON FILE FOR A MINIMUM OF TWO YEARS AND MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.
- 6) SULFUR CONTENT OF DIESEL FUEL SUPPLIED TO THIS ENGINE SHALL NOT EXCEED 0.05% BY WEIGHT.

THIS PERMIT TO CONSTRUCT/OPERATE R-F21753 SUPERSEDES PERMIT TO CONSTRUCT/OPERATE F21753 ISSUED 8/20/1999.

NOTICE

IN ACCORDANCE WITH RULE 206, THIS PERMIT TO OPERATE OR COPY SHALL BE POSTED ON OR WITHIN 8 METERS OF THE EQUIPMENT.

FILE COPY

SCAQMD COMPUTER ASSISTED PERMIT PROCESSING (CAPPS)

AEIS DATA SHEET

Company Name

: ORANGE, COUNTYOF - SANITATION DISTRICT

Facility ID: 029110

Equipment Address: 22212 BROOKHURST ST, HUNTINGTON BEACH, CA 92646

APPLICATION NUMBER

: 357971

EQUIPMENT B-CAT: 043902

EQUIPMENT C-CAT: 00

ESTIMATED COMPLETION DATE: 11/05/1999

EQUIPMENT TYPE

: BASIC

EQUIPMENT DESCRIPTION

: I C E (>500 HP) EM ELEC GEN DIESEL

	EMISSIONS			
	R1	R2 ·		
EMITTANTS	(LB/HR)	(LB/HR)		
co	601	601		
NOX	472	472		
PM	440	440		
ROG	291	291		
SOX	121	121		

APPLICABLE RULES

401 404 1303

WEEKS/YEAR: 50	Mon	Tue	Wed	Thur	Fri	Sat	Sun	
Daily Start Times:	8:00	:	:		:	:	:	•
Daily Stop Times:	12:00		*	•	2	•	:	

User's Initials: GR01

Date: 8/17/1999

Supervisor's Name: ______

Review Date: 8 101 99

PAGE # 1

FORM CAPPS-200A

Gaurang Rawal

From:

Vitko, Ted [TVITKO@OCSD.COM]

Sent:

Monday, November 05, 2007 9:57 AM

To:

Gaurang Rawal

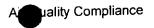
Subject: OCSD P2 Diesel Engine Information

Hi Gaurang,

Here's the information you requested over the phone. Let me know if you have any other question. Thanks

	Equipment Perr	mit#	Serial #		
Detroit Diesel No.1	Power Building E	B R-F21		DD02,200000	
Detroit Diesel No.2	Power Building 8	B R-F21	1753	DD5272000531	T163-7K16

Ted Vitko



Extension 7442

Gaurang Rawal

From:

Vitko, Ted [TVITKO@OCSD.COM]

Sent:

Wednesday, October 31, 2007 4:06 PM

To:

Gaurang Rawal

Subject:

PM Data from Source Testing of Diesel Engines



Hi Gaurang,

Sorry for the confusion. What I sent you initially was the latest source testing data we did to the newest engines. This one is for those engines we're requesting additional maintenance hours based on PM data. Let me know if you need anything else. Thanks

Ted Vitko Air Quality Compliance Extension 7442



ORANGE COUNTY SANITATION DISTRICT PLANT NO. 2 EMERGENCY DIESEL GENERATORS 2004 ENGINEERING SOURCE TEST REPORT

PREPARED FOR:

Orange County Sanitation District
Post Office Box 8127
10844 Ellis Avenue
Fountain Valley, California 92728-8127

EQUIPMENT LOCATION:

Plant No. 2
Internal Combustion Engine Emergency Diesel-Fired Generators
Huntington Beach Wastewater Treatment Facility
Huntington Beach, California

TEST DATES: June 15-17, 2004

ISSUE DATE: July 15, 2004

PREPARED BY:

Mr. Michael W. Bell SCEC 1582-1 North Batavia Street Orange, California 92867

Report No:

2061.1014.rpt1

Tested By:

Michael W. Bell

Reviewed By:

Leslie A. Johnson

TABLE 1.1 SUMMARY OF RESULTS

Parameter	Units	CAT 3512	DD 9163-7305/	DD T163-7K16	\triangleright
Stack Heigh: Above Ground Level (1)	Ft	24.292	32,958	27.833	
Stack Inside Diameter	I n	11.75	12.875	15.25	
Stack Flow Rate	ACFM	5,030	6,920	9,381	
Stack Flow Rate @ 68 deg F, 29.92 in Hg	DSCFM	1,886	3,600	4,332	
Stack Temp	Deg F	843	502	597	
Stack Moisture Content	% Vol	7.4	4.7	7.6	
Test Load	KW	440	386	1150	
Horsepower (Rated @ Full Load)>	ВНР	1482	1515	 ≥ 2935	
Horsepower (Estimated Actual Based on KW Output) (2)	внр	652	547	1688>	58% loa
PM Concentration (3)	gr/DSCF	0.0224	0.0169	0.0103	
PM Mass Emissions (3)	Lb/Hr	0.36	0.52		
PM Mass Emissions (Based on Rated BHP) (1)	Gm/BHP-Hr	0.111	0.156	0.103	1686 BHI
PM Mass Emissions (Based on Estimated Actual BHP) (1)	Gm/BHP-Hr	0.252	0.434	0.059	
O ₂ Concentration	% vd	11.59	16.40	12.30	
CO ₂ Concentration	% vd	6.88	3.38	6.36	
NO _x Concentration	ppmvd	1727	550	1356	1
NO _x Mass Emissions	Lb/Hr	23.33	14.18	42.08	
NO _x Mass Emissions (Based on Rated BHP)	Gm/BHP-Hr	7.142	4.247	6.504	l
NO _x Mass Emissions (Based on Estimated Actual BHP)	Gm/BHP-Hr	16.233	11.762	11.308	
CO Concentration	ppmvd	·242	105	79	
CO Mass Emissions	Lb/Hr	1.99	1.65	1.49	ĺ
CO Mass Emissions (Based on Rated BHP)	Gm/BHP-Hr	.0.609	0.493	0.231	
CO Mass Emissions (Based on Estimated Actual BHP)	Gm/BHP-Hr	1.384	1.367	0.401	
TGNMEO Concentration	ppinv	83.5	96.6	79.5	
TGNMEO Mass Emissions	Lb/Hr	0.39	0.87	0.86	1
TGNMEO Mass Emissions (Based on Rated BHP)	Gm/BHP-Hr	0.120 `	0.259	0.133	
TGNMEO Mass Emissions (Based on Estimated Actual BHP)	Gm/BHP-Hr	0.273	0.718	0.231	

⁽¹⁾ Height was measured as best as possible; however ground level was sloped for CAT 3512 and DD 9163-7305 buildings.

⁽²⁾ Horsepower is estimated based on calculated efficiency of full load generator to horsepower rating. Manufacturer curves should be utilized to more accurately determine horsepower at the test load.

⁽³⁾ PM data is for the front-half (probe, nezzle and filter components). Additional PM data for the condensable fraction is provided in Appendix A.

SUMMARY OF PARTICULATE EMISSIONS

Date:	June 17, 2004						
Client:	oeso		\rightarrow				
Site:	Plant 2 DD T163-7	K16 EG Exha	erst				;
	FREE STANFARE BY	resident and the	1. 发生的复数	7.7			tank are
PARTICULATE		SYMBOL	UNITS		RUN 1	RUN 2	AVERAGE
00米5000米65		第 2名的数据			J 2: - 44 - 1 - 1 - 1		<u> </u>
FILTERABLE P							1
NET MILLIGRAI		mg	mg		28.6	24.9	26.8
CONCENTRATION		Csd	gr/SDCF		0.0110	0.0096	0.0103
CONCENTRATIO		Csd,12	gr/SDCF		0.0208	0.0181	0.0194
EMISSION RATE		E.R.	LB/HR	1	0.41	0.35	0.38
EMISSION RATE	-	E.R.	LB/DAY		9.88	8.49	9.19
EMISSION RATE		E.R.	gm/BHP-Hr		0.111	0.095	0.103
EMISSION RATE		E.R.	gm/BHP-Hr	H	0.064	0.055	0.059
						100	
	E PARTICULATE				Service or To		Street Street
NET MILLIGRA	MS	mg	mg		19.7	25.8	22.8
CONCENTRATION	NC	Csd	gr/SDCF	1 1	0.0076	0.0099	0.0088
CONCENTRATIO	ON @ 12% CO2	Csd,12	gr/SDCF	14	0.0143	0.0188	0.0165
EMISSION RATE	Ξ	E.R.	LB/HR		0.28	0.37	0.33
EMISSION RATI	3	E.R.	· LB/DAY		6.81	8:82	7.81
EMISSION RATE	E (1)	E.R.	gm/BHP-Hr	1	0.076	0.099	0.087
EMISSION RATI		E.R.	gm/BHP-Hr	99) 14	0.044	0.057	0.050
		J. (2) (3) (3)		14	新华州	27-10-	
ORGANIC PAR	TICULATE		-				Rock at the second
NET MILLIGRA	MS	mg	mg	40	ŅĄ	NA	NA
CONCENTRATI	ON	Csd	gr/SDCF	7	NA	NA	NA
CONCENTRATION	ON @ 12% CO2	Csd,12	gr/SDCF	幽	NA	NA	NA
EMISSION RATI	E	E.R.	LB/HR		NA	NA	NA
EMISSION RATI	E	E.R.	LB/DAY		NA	NA	NA
			汉 籍约号中于主				- خاندارون
TOTAL PARTIC				žķ.	SAN SECTION SEC	7.2	
NET MILLIGRA		mg	mg	1	48.3 V	50.7	49.5 L
CONCENTRATI		Csd	gr/SDCF		0.0136	0.0195	0.0191
CONCENTRATI		Csd,12	gr/SDCF	_[``]	0.0352	0.0368	0.0360
EMISSION RAT		E.R.	LB/HR	4	0.70	0.72	0.71
EMISSION RAT		E.R.	LB/DAY		16.68	17.31	17.00
EMISSION RAT		E.R.	.gm/BHP-Hr	.]	0.187	0.194	0.190
EMISSION RAT	E (2)	E.R.	gm/BHP-Hr		0.107	0.111	0.109
इ स्ट्रिक्ट इ स्तार प्रतिकृतिस्तार स्थापन	and an order of the management of the street for the	ढ़ढ़ऻढ़ॳॹज़ॎ क़ॸफ़ऻढ़	Carlot to the contract of the	']	F		

⁽¹⁾ Calculated based on estimated horsepower during test.

⁽²⁾ Calculated based on full load rated horsepower listed in permit.

PARTICULATE LABORATORY DATA

	Date:	June 17, 2004					
	Client:	OCSD					
	Site:	Plant 2 DD T163	3-7K16 EG 1	Exhaust			
			5.1 2.30		oras estavadas		
and the contract of the contra		กลูกกระสมอดสุดสาราชการเกราะกระ อาษาได้ เพื่อเรื่องสิติ เปิดี ซึ่งเลื					
		22.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2	VIc less	, 44, 5, v 2-1,		Uncorrected	Corrected
Туре	Total Sample	Aliquot	Silica gel	Gross Wt.	Tare Wt.	Final Wt.	Final Wt.
	Vol. (mi)	Vol. (ml)	Vol. (ml)	(g)	(g)	(mg)	(mg)
12 P. O. S.	到。特别是特殊	articles of the sa	由于经验学	Acceptance in	高小龙河	g mer sonst.	
Acetone	150	*		103.0094	103.0094	0.00	
H2O	200			99.9375	99.9370	0.50	
MeCl2	NA			NA	NA	NA	
Filter	******			0.5303	0.5145	15.80	15.80
Front Half Rinses	185	185		106.2054	106.1926	12.80	12,80
Condensables	450	450	54.9	86.5098	86.4891	20.70	19.71
Organics	NA	NA	NA	NA:	NA	NA	ŅΑ
Total		****				49.30	48.31
					ing and the second		.41.
Filter				0.5101	0.4960	14.10	14.10
Front Half Rinses	205	205		103.0924	103.0816	10.80	10.80
Condensables	440	440	56.7	98.6282	98.6014	26.80	25.84
	1	1	BIA	NA	NA	N/A	NA
Organics	NA NA	NA	NA	J NA	į IVA	NA	INA.
	Type Acetone H2O MeCl2 Filter Front Half Rinses Condensables Organics Total Filter Front Half Rinses	Client: Site:	Client: OCSD Site: Plant 2 DD T162	Client: OCSD Site: Plant 2 DD T163-7K16 EG	Client: OCSD Site: Plant 2 DD T163-7K16 EG Exhaust	Client: OCSD Site: Plant 2 DD T163-7K16 EG Exhaust	Client: OCSD Site: Plant 2 DD T163-7K16 EG Exhaust

Note: NA = Not Applicable for the test program.

SUMMARY OF PARTICULATE EMISSIONS

OCSD Plant 2 CAT 3512 PE TICULATE	SYMBOL	UNITS		RUN 1	RUN 2	AVERAGE
PE	SYMBOL	UNITS		RUN 1	RUN 2	AVERAGE
		UNITS	. 4	RUN 1	RUN 2	AVERAGE
			7 7			, ·
The state of the s			2 4	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
	ga. ~					
	mg	mg		52.4	52.3	52.3
	Csd	gr/SDCF		0.0227	0.0221	0.0224
@ 12% CO2	Csd,12	gr/SDCF		0.0396	0.0386	0.0391
	E.R.	LB/HR	ķ_	0.36	0.36	0.36
	E.R.	LB/DAY	236	8.67	8.70	8.68
	E.R.	gm/BHP-Hr		0.251	0.252	0.252
•	E.R.	gm/BHP-Hr		0.111	0.111	0.111
						-riv 18-22
				eriginal to the	327	
	mg	mg		11.5		15.5
	Csd	gr/SDCF	33	0.0050	0.0082	0.0066
₱ 12% CO2	Csd,12	gr/SDCF		0.0087	0.0144	0.0115
	E.R.	LB/HR		0.08	0.13	0.11
	E.R.	LB/DAY		1.90	3.23	2.57
1	E.R.	gm/BHP-Hr] [0.055	0.094	0.074
,	E.R.	gm/BHP-Hr	•	0.024	0.041	0.033
				Andreas de la contraction de l		
	mg	mg		NA	NA	NA
Ì	Csd	gr/SDCF		NA	NA	NA
@ 12% CO2	Csd,12	gr/SDCF		NA	NA	NA:
	E.R.	LB/HR		NA	NA	NA NA
	E.R.	LB/DAY	1.]	ΝA	NA	NA
	AN STATE OF	A fail of the same		and the second	1000	-
LATE				4.494.6	14 14 Half 10	
	mg	mg		63.9	71.7	67.8
	Csd	gr/SDCF	展	0.0276	0.0303	0.0290
	Csd,12	gr/SDCF		0.0483	.0.0530	0.0506
	E.R.	LB/HR		0.44	0.50	0.47
	E.R.	LB/DAY		10.57	11:93	11.25
ับ	E.R.	gm/BHP-H		0.306	0.346	0.326
Z	E₁R.			0.135		0.144
	ARTICULATE # 12% CO2	E.R. E.R. E.R. E.R. E.R. E.R. ARTICULATE mg Csd Csd,12 E.R. E.R.	E.R. LB/DAY E.R. gm/BHP-Hr E.R. gm/BHP-Hr E.R. gm/BHP-Hr E.R. gm/SDCF C.S. gr/SDCF E.R. LB/HR E.R. LB/DAY E.R. gm/BHP-Hr E.R. gm/BHP-Hr E.R. gm/SDCF E.R. LB/HR E.R. LB/HR E.R. LB/DAY C.S. gr/SDCF E.R. LB/HR E.R. LB/DAY E.R. LB/HR E.R. LB/DAY E.R. LB/DAY E.R. LB/DAY E.R. LB/HR E.R. LB/HR E.R. LB/HR E.R. LB/HR E.R. LB/DAY E.R.	E.R. LB/DAY E.R. gm/BHP-Hr E.R. gm/BHP-Hr E.R. gm/BHP-Hr E.R. gm/BHP-Hr E.R. gm/BHP-Hr E.R. LB/DAY E.R. LB/DAY E.R. gm/BHP-Hr E.R. LB/DAY E.R. LB/HR E.R. LB/HR E.R. LB/DAY E.R. LB/DAY	E.R. LB/DAY 58 8.67 E.R. gm/BHP-Hr 0.251 E.R. gm/BHP-Hr 0.111 ARTICULATE mg mg 11.5 Csd gr/SDCF 0.0050 E.R. LB/HR 0.08 E.R. LB/DAY 1.90 E.R. gm/BHP-Hr 0.055 E.R. gm/BHP-Hr 0.024 CULATE mg mg NA Csd gr/SDCF NA Csd gr/SDCF NA E.R. LB/HR NA E.R. LB/HR NA E.R. LB/HR NA E.R. LB/DAY NA Csd gr/SDCF 0.0276 N	E.R. LB/DAY 18 8.67 8.70

Note: NA = Not Applicable

⁽¹⁾ Calculated based on estimated horsepower during test.

⁽²⁾ Calculated based on full load rated horsepower listed in permit.

SUMMARY OF PARTICULATE SOURCE TEST DATA AND CALCULATIONS

Date:	06/15/04	·····			
Client:	OCSD				
Site:	Plant 2 CAT 3	512 EG Exhaus	it.		
				12.12	
MEASURED SOURCE PARAMETERS	SYMBOL	UNITS	RUN 1	RUN 2	AVERAGE
	900000 PERSON NO.	diversal series.		equest e producti	/
STACK DIAMETER	Ds	IN	11.75	11.75	11.75
STACK AREA	Ds	FT^2	0.75	0.75	0.75
BAROMETERIC PRESSURE	Pbar	IN. Hg	29.94	29.94	29.94
STATIC PRESSURE	Pstat	IN. H2O	-0.650	-0.640	-0.645
STACK PRESSURE	Ps	IN. Hg	29,89	29.89	29.89
AVERAGE STACK TEMPERATURE	Ts	DEG.F	844.1	841.0	842.6
AVERAGE SQ. ROOT VELOCITY PRESSURE	dP	IN. H2O	1.276	1.309	1.292
	Mary Country of the	Use an approprie	A LONG CO.		
SAMPLING PARAMETERS		Š	6. A		
	man sa	4.0		200	
STANDARD TEMPERATURE	Tstd	DEG.F	68.0	68.0	68.0
STANDARD PRESSURE	Pstd	IN. Hg	29.92	29.92	29.9
PERCENT CARBON DIOXIDE	CO2	%	6.9	6,9	6.9
PERCENT OXYGEN	O2	%	11.6	11.6	11.6
PITOT CORRECTION FACTOR	Ср		0.818	0.818	0.818
NOZZLE DIAMETER	Dn	IN	0.212	0.212	0.212
NOZZLE DIAMETER	Dn	FT^2	0.00025	0.00025	0.00025
SÁMPLING TIME	ţ	MIN.	60.0	60.0	60.0
GAS VOLUME SAMPLED	Vm	DCF	36,750	37.914	37.332
WATER VAPOR COLLECTED	Vlc	GRAMS	61.6	60.9	61.3
DRY GAS METER CORRECTION FACTOR	Y		1.0002	1.0002	1.0002
DRY GAS METER TEMPERATURE	Tm	DEG. F	86.0	90.4	88:2
ORIFICE PRESSURE	dH	IN. H2O	1.07	1.13	1.10
	(1) (1) (1) (1) (1) (1) (1) (1)	वाकी के ले अपन	A CANCELLA	A November	- 11
CALCULATED RESULTS					
				ing in the contraction of the co	Test of Charles
CORRECTED GAS VOLUME SAMPLED	Vmstd	DSCF	35.663	36.503	36.083
VOLUME OF WATER CONDENSED	Vwstd	SCF	2.91	2.875	2.89
MOISTURE CONTENT OF FLUE GAS	Bws	%	7.54	7.30	7.42
DRY MOLECULAR WEIGHT OF FLUE GAS	MW dry	lb/lb-mole	29.56	29.56	29.56
WET MOLECULAR WEIGHT OF FLUE GAS	MW. wet	lb/lb-mole	28.69	28.72 -	28.71
FLUE GAS VELOCITY	٧s	ft/sec	110.01	112.65	111.33
FLUE GAS FLOW RATE (ACTUAL CONDITIONS)	ACFM	ACFM	4,970	5,089	5,030
FLUE GAS FLOW RATE (STD. CONDITIONS)	SDCFM	SDCFM	1,859	1,913	1,886
PERCENT EXCESS AIR	% EA	%	116.8	116.5	116.6
PERCENT ISOKINETIC SAMPLING RATE	% ISO	%	98.2	97.7	98.0

SUMMARY OF PARTICULATE EMISSIONS

Date: June 16, 2004						
Client: OCSD						
Site: Plant 2 Detroit Dies	el 9163-7305	(EG)				
THE PROPERTY OF THE PROPERTY O		Constitution of the	2-1			élanan .
PARTICULATE TYPE	SYMBOL	UNITS	H	RUN 1	RUN 2	AVERAGE
			X			
FILTERABLE PARTICULATE				le proprie		12.
NET MILLIGRAMS	mg	mg		51.2	51.7	51.4
CONCENTRATION	Csd	gī/SDCF		0.0168	0.0171	0.0169
CONCENTRATION @ 12% CO2	Csd,12	gr/SDCF		0.0598	0.0607	0.0602
EMISSION RATE	E.R.	LB/HR	***	0.52	0.52	0.52
EMISSION RATE	E.R.	LB/DAY	1	12.53	12.54	12.54
EMISSION RATE (1)	E.R.	gm/BHP-Hr		0.433	0,434	0.433
EMISSION RATE (2)	E.R.	gm/BHP-Hr		0.156	0:156	0.156
		ni di Salah Ba	14	20 TH 18		
CONDENSABLE PARTICULATE				1500 Lagrag		
NET MILLIGRAMS	mg	mg	4	18.0	11.3	14.7
CÔNCENTRATION	Csd	gr/SDCF		0.0059	0.0037	0.0048
CONCENTRATION @ 12% CO2	Csd,12	gr/SDCF		0.0211	0.0133	0.0172
EMISSION RATE	E.R.	LB/HR		0.18	0.11	0.15
EMISSION RATE	E.R.	LB/DAY		4.41	2.74	3:58
EMISSION RATE (1)	E.R.	gm/BHP-Hr		0.153	0.095	0.124
EMISSION RATE (2)	E.R.	gm/BHP-Hr		0.055	0.034	0.045
The state of the s	i i sani ya e	an a said and a said and a said a	44			
ORGANIC PARTICULATE		- 1	2 · .		A diament	ganden e
NET MILLIGRAMS	mg	mg	4	NA	NA	NA
CONCENTRATION	Csd	gr/SDCF		NA	NA	NA
CONCENTRATION @ 12% CO2	Csd,12	gr/SDCF		NA	NA	NA
EMISSION RATE	E.R.	LB/HR		NA	NA	NA
EMISSION RATE	E.R.	LB/DAY	13	NA	NA	NA
					Section 2	
TOTAL PARTICULATE			4	W-200		
NET MILLIGRAMS	mg	mg .		69.2	63.0	66.1
CONCENTRATION	Csd	gr/SDCF		0.0227	0.0208	0.0218
CONCENTRATION @ 12% CO2	Csd,12	gr/SDCF	Ξ,	0.0808	0.0740	0.0774
EMISSION RATE	E.R.	LB/HR	(j.)	0.71	0.64	0.67
EMISSION RATE	E.R.	LB/DAY	j :"	16.94	15.28	16.11
EMISSION RATE (1)	E.R.	gm/BHP-Hr		0.586	0:529	0.557
EMISSION RATE (2)	E.R.	gm/BHP-Hr	K	0.211	0.191	0.201
CONTROL OF THE PROPERTY OF THE	S. Marine &	in exercises		And the second		

Note: NA = Not Applicable

⁽¹⁾ Calculated based on estimated horsepower during test.

⁽²⁾ Calculated based on full load rated horsepower listed in permit.

SUMMARY OF PARTICULATE SOURCE TEST DATA AND CALCULATIONS

Date:	06/16/04						
Client:	OCSD						
Site:	Plant 2 Detroit Diesel 9163-7305 (EG)						
					,		
MEASURED SOURCE PARAMETERS	SYMBOL	UNITS	7	RUN 1	RUN 2	AVERAGE	
	ि विकास हारहरू	* 225 T	1	·····			
STACK DIAMETER	Ds	IN		12.88	12.88	12.88	
STACK AREA	Ds	FT^2	- 1	0.90	0.90	0.90	
BAROMETERIC PRESSURE	Pbar	IN. Hg	· 🔭	29.85	29.85	29.85	
STATIC PRESSURE	Pstat	IN. H2O		-1.250	-1.350	-1.300	
STACK PRESSURE	Ps	IN. Hg	1	29.76	29.75	29.75	
AVERAGE STACK TEMPERATURE	Ts	DEG. F		501.4	502.3	501.9	
AVERAGE SQ. ROOT VELOCITY PRESSURE	ď₽	IN. H2O	`:ત	1.732	1.704	1.718	
Mark the second of the second	F1 - 20 1 - 15						
SAMPLING PARAMETERS			3				
		\$100 P. S. 18		Paris Sand	सङ्ग्रहरू वि	e- · · ·	
STANDARD TEMPERATURE	Tstd	DEG. F		68.0	68.0	68.0	
STANDARD PRESSURE	Pstd	IN. Hg		29.92	29.92	29.9	
PERCENT CARBON DIOXIDE	CO2	%		3.4	3.4	3.4	
PERCENT OXYGEN	02	96.		16.4	16.4	16.4	
PITOT CORRECTION FACTOR	Ср		1	0.818	0.818	0.818	
NOZZLE DIAMETER	Dn	IN	4	0.190	0,190	0.190	
NOZŹLE DIAMETER	Dn	FT^2	<u>-</u>	.00020	0.00020	0.00020	
SAMPLING TIME	t	MIN.	1	60.0	60.0	60.0	
GAS VOLUME SAMPLED	Vm	DCF	1	47.377	47.299	47.338	
WATER VAPOR COLLECTED	Vlc	GRAMS		49.2	49.0	49.1	
DRY GAS METER CORRECTION FACTOR	Y ·	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)		1.0002	1.0002	1.0002	
DRY GAS METER TEMPERATURE	Tm	DEG. F	.	72.5	76.0	74.3	
ORIFICE PRESSURE	Hb	IN. H2O	1	1.86	1.80	1.83	
			.	* * TEFS * * .	·	•	
CALCULATED RESULTS ·					- 		
			. 1				
CORRECTED GAS VOLUME SAMPLED	Vmstd	DSCF	7 4 -	47.091	46.700	46.896	
VOLUME OF WATER CONDENSED	Vwstd	SCF		2.32	2.313	2.32	
MOISTURE CONTENT OF FLUE GAS	Bws	%		4.70	4.72	4.71	
DRY MOLECULAR WEIGHT OF FLUE GAS	MW dry	lb/lb-mole	7.3	29.19	29.20	29.20	
WET MOLECULAR WEIGHT OF FLUE GAS	MW wet	lb/lb-molé	<u> </u>	28.67	28.67	28.67	
FLUE GAS VELOCITY	Vs	ft/sec		128.55	126.58	127.57	
FLUE GAS FLOW RATE (ACTUAL CONDITIONS)	ACFM	ACFM	***	6,974	6,866	6,920	
FLUE GAS FLOW RATE (STD. CONDITIONS)	SDCFM	SDCFM	T	3,630	3,569	3,600	
PERCENT EXCESS AIR	%EÀ	%		342.5	341.7	342.1	
PERCENT ISOKINETIC SAMPLING RATE	% ISO	96	1	99.3	100.1	99.7	

Note: NA = Not Applicable for the test program.

SUMMARY OF PARTICULATE SOURCE TEST DATA AND CALCULATIONS

Date:	06/17/04						
Client:	OCSD						
Site:	Plant 2 DD T163-7K16 EG Exhaust						
			Ŧ.			·	
MEASURED SOURCE PARAMETERS	SYMBOL	UNITS		RUN 1	RUN 2	AVERAGE	
	* E18:107-A11-1		2	energy vers	हरा पृष्ट्य स्टब्स		
STACK DIAMETER	Ds	IN	3: / 3: /	15.25	15.25	15.25	
STACK AREA	Ds	FT^2	1	1.27	1.27	1.27	
BAROMETERIC PRESSURE	Pbar	IN. Hg		29.82	29.82	29.82	
STATIC PRESSURE	Pstat	IN. H2O		-0.820	-1.050	-0.935	
STACK PRESSURE	Ps	IN. Hg	1	29.76	29.74	29.75	
AVERAGE STACK TEMPERATURE	Ts	DEG F		597.0	596.8	596.9	
AVERAGE SQ. ROOT VELOCITY PRESSURE	dP	IN. H2O		1.589	1.580	1.584	
Administration of the second s	deine Arthur de die die	And Service of the service		lize to a series is a			
SAMPLING PARAMETERS							
		ista a line of the black		Marin Charles and the second of			
STANDARD TEMPERATURE	Tstd	DEG. F	٤,	68.0	68.0	68.0	
STANDARD PRESSURE	Pstd	IN. Hg		29.92	29.92	29.9	
PERCENT CARBON DIOXIDE	CO2	%		6.4	6.4	6.4	
PERCENT OXYGEN	O2	%		12.3	12.3	12.3	
PITOT CORRECTION FACTOR	Ср			0.818	0.818	0.818	
NOZZLE DIAMETER	Dn	IN	1	0.190	0.190	0.190	
NOZZLE DIAMETER	Dn	FT^2		0.00020	0.00020	0.00020	
SAMPLING TIME	t ·	MIN.	8	60.0	60.0	60.0	
GAS VOLUME SAMPLED	Vm	DCF	Ŷ	40.949	41.168	41.059	
WATER VAPOR COLLECTED	Vlc	GRAMS	*	63.4	65.2	64.3	
DRY GAS METER CORRECTION FACTOR	Y	沙美国市	¥,	1.0002	1.0002	1.0002	
DRY GAS METER TEMPERATURE	Tm	DEG. F		81.0	81.4	81.2	
ORIFICE PRESSURE	đН	IN. H2O		1.35	1.34	1.34	
				Principal de la compansa de la comp		·	
CALCULATED RESULTS							
	The state of the state of		,		γ		
CORRECTED GAS VOLUME SAMPLED	Vmstd	DSCF		39,972	40.155	40.063	
VOLUME OF WATER CONDENSED	Vwsid	SCF		7,7,7	3.078	3.04	
MOISTURE CONTENT OF FLUE GAS	Bws	%		6:97	7.12	7.04	
DRY MOLECULAR WEIGHT OF FLUE GAS	MW dry	lb/lb-mole		29.51	29.51	29.51	
WET MOLECULAR WEIGHT OF FLUE GAS	MW wet	lb/lb-mole	2	28.71	28.69	28.70	
FLUE GAS VELOCITY	Vs	ft/sec	[]	123.60	122.92	123.26	
FLUE GAS FLOW RATE (ACTUAL CONDITIONS)	ACFM	ACFM	[·	9,407	9,355	9,381	
FLUE GAS FLOW RATE (STD. CONDITIONS)	SDCFM	SDCFM	ļ:	4,348	4,316	4,332	
PERCENT EXCESS AIR	% EA	%		134.5	133.7	134.1	
PERCENT ISOKINETIC SAMPLING RATE	% ISO	%		98.7	99.9	99.3	

Note: NA = Not Applicable for the test program.

PARTICULATE LABORATORY DATA

		Date:	June 15, 2004					
		Client:	OCSD					
		Şite:	Plant 2 CAT 35	12 EG Exh	aust			
				कुरम्भू स्थापन का क	representation	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	,,,	
	eres					•		
		4	- depterment	Vic less	1.11.4	<u> </u>	Uncorrected	Correcte
Run No.	Туре	Total Sample	Aliquot	Silica gel	Gross Wt.	Tare Wt.	Final Wt.	Final W
	, ,	Vol. (ml)	Vol. (ml)	Vol. (ml)	(g)	(g)	(mg)	(mg)
	A STATE OF THE STA			dang r	9,	1	, ,,,,6,	(mg/
Blank	Acetone	150		****	103.0094	103.0094	0.00	*****
Blank	H2O	200			99.9375	99,9370	0.50	
Blank	MeCl2	NA			ŇÁ	NA	NA	
四色流流				A Second	Sec Similar	3 1 7 2 3 7 1	ike stante an	
11	Filter				0.5356	0.5004	35.20	35.20
1274	Front Half Rinses	275	275		105.1231	105,1059	17.20	17.20
6 李文学	Condensables	455	455	53.5	103.0066	102,9941	12.50	11.50
	Organics	NA	NA	NA	NA.	NA	NA	NA
	Total				*******		64.90	63.90
100							117 Per 20 Sec	
2	Filter				0.5573	0.5200	37.30	37.30
在安徽	Front Half Rinses	225	225	•	101.5011	101.4861	15.00	15.00
	Condensables	435	435	52.9	86.4582	86.4378	20.40	19.44
177	Organics	NA	NA	ΝA	NA	NA	NA.	NA.
	Total		****				72.70	71.74
2.75	THE CALL OF STREET	NO PROPERTY		A STATE OF THE REAL PROPERTY.	ALCO STEELS OF THE SECOND SECO	A STATE OF THE PARTY OF THE PAR	29.839 T 8.438 -2 8112	

CLIENT:

OCSD

ANALYST: GS

REPORT #:

2061.1014

METHOD: CARB Method 5

TEST DATE:

06/15/04

LOCATION/UNIT:

P2 E1 (CAT)

RUN#

PM-1

PROBE AND NOZZLE WASH

Sample Volume:

275 ml

Aliquot:

275 ml

Evaporation Dish:

E50

	1	2	3	Average
Deta:	06/21/04	06/23/04		
)ate: Time:	12:00	14:00		
	105.1230	105.1232		105.1231 g
Weight:	105.1059	105.1059	105.1059	105.1059 g
Tare: Net Weight		J		17.2 mg

FILTER

Filter Number:

110- 0133

		2	3	Avera	ige
Date:	06/21/04	06/23/04			
Time:	12:00	14:00			
Weight:	0.5356	0.5356		0.5356	<u>g</u>
Tare:	0.5004	0.5004	0.5004	0.5004	g
Net Weight				35.2	mg

CONDENSABLE PARTICULATE

Sample Volume:

455 ml

Aliquot:

455 ml

Evaporation Dish:

	1	2	3	Average
Date:	06/21/04	06/23/04		
Time:	12:00	14:00		400 0000
Weight:	103.0014	103.0118		103.0066 g
Tare:	102.9941	102.9941	102.9941	102.9941 g
Net Weight				12.5 mg

CLIENT:

OCSD

ANALYST: GS

REPORT#:

2061.1014

METHOD: CARB Method 5

TEST DATE:

06/15/04

LOCATION/UNIT:

P2 E1 (CAT)

RUN#

PM-2

PROBE AND NOZZLE WASH

Sample Volume:

225 ml

Aliquot:

225 ml

Evaporation Dish:

E55

		2	3	Average
Date:	06/21/04	06/23/04		<u> </u>
Time:	12:00	14:00	-	
Weight:	101.5012	101,5009		101.5011 g
Tare:	101.4861	101.4861	101.4861	101.4861 g
Net Weight		·	·	15.0 mg

FILTER

Filter Number:

110- 0101

	I	2	3	Avera	age
Date:	06/21/04	06/23/04			<u> </u>
Time:	12:00	14:00		1	
Weight:	0.5573	0.5572		0.5573	g
Tare:	0.5200	0.5200	0.5200	0.5200	g
Net Weight				37.3	mg

CONDENSABLE PARTICULATE

Sample Volume:

435 ml

Aliquot:

435 ml

Evaporation Dish:

	1	2	3	Average
Date:	06/21/04	06/23/04		
Time:	12:00	14:00	<u> </u>	
Weight:	86.4580	86.4583		86.4582 g
Таге:	86.4378	86.4378	86.4378	86.4378 g
Net Weight				20.4 mg

CLIENT:

OCSD

ANALYST: GS

REPORT #:

2061.1014

METHOD: CARB Method 5

TEST DATE:

06/16/04

LOCATION/UNIT:

Detroit Diesel 1 (E6)

RUN#

PROBE AND NOZZLE WASH

Sample Volume:

200 ml

Aliquot:

200 ml

Evaporation Dish:

E65

	1	2	3	Average
Date:	06/21/04	06/23/04		
Time:	12:00	14:00		
Weight:	.104.3660	104.3665		104.3663 g
Tare:	104.3499	104.3499	104.3499	104.3499 g
Net Weight		4.		16.4 mg

FILTER

Filter Number:

110- 0092

	1	2	3	Average
Date:	06/21/04	06/23/04		
Time:	12:00	14:00		
Weight:	0.5465	0.5466		0.5466 g
Tare:	0.5118	0.5118	0.5118	0.5118 g
Net Weight				34.8 mg

CONDENSABLE PARTICULATE

Sample Volume:

425 ml

Aliquot:

425 ml

Evaporation Dish:

	1	2	3	Average
Date:	06/21/04	06/23/04		
Time:	12:00	14:00		
Weight:	102.2890	102.2894		102.2892 g
Tare:	102.2702	102.2702	102.2702	102.2702 g
Net Weight				19.0 mg

CLIENT:

OCSD

ANALYST: GS

REPORT#:

2061.1014

METHOD: CARB Method 5

TEST DATE:

06/16/04

LOCATION/UNIT:

Detroit Diesel 1 (E6)

RUN#

PM-2

PROBE AND NOZZLE WASH

Sample Volume:

190 ml

Aliquot:

190 ml

Evaporation Dish:

.E53

	1	2	3	Average
Date:	06/21/04	06/23/04		
Time:	. 12:00	14:00	-	
Weight:	99.5998	99.6002		99.6000 g
Tare:	99.5853	99.5853	99.5853	99.5853 g
Net Weight		<u> </u>		14.7 mg

FILTER

Filter Number:

110- 0090

	1	2	3	Average
Date:	06/21/04	06/23/04		
Time:	12:00	14:00		
Weight:	0.5524	0.5523		0.5524 g
Tare:	0.5154	0.5154	0.5154	0.5154 g
Net Weight	37.0 mg			

CONDENSABLE PARTICULATE

Sample Volume:

440 ml

Aliquot:

440 ml

Evaporation Dish:

	1	2	3	Average	
Date:	06/21/04	06/23/04			
Time:	12:00	14:00			
Weight:	100.3909	100.3911		100.3910 g	
Tare:	100.3787	100.3787	100.3787	100.3787 g	
Net Weight	12.3 mg				

CLIENT:

OCSD

ANALYST: GS

REPORT#:

2061.1014

METHOD: CARB Method 5

TEST DATE:

06/17/04

LOCATION/UNIT:

Detroit Diesel (New)

RUN#

PM-1

PROBE AND NOZZLE WASH

Sample Volume:

Aliquot:

185 ml

Evaporation Dish:

E52

	1	2	3	Average
Date:	06/21/04	06/23/04		
Time:	12:00	14:00		
Weight:	106.2052	106.2056		106.2054 g
Tare:	106.1926	106.1926	106.1926	106.1926 g
Net Weight		<u> </u>	<u> </u>	12.8 mg

FILTER

Filter Number:

110- 0083

	<u> </u>	2	3	Average
Date:	06/21/04	06/23/04		
Time:	12:00	14:00		
Weight:	0.5304	0.5302		0.5303 g
Tare:	0.5145	0.5145	0.5145	0.5145 g
Net Weight		<u> </u>		15.8 mg

CONDENSABLE PARTICULATE

Sample Volume:

450 ml

Aliquot:

450 ml

Evaporation Dish:

	1	2	3	Average
Date:	06/21/04	06/23/04		
Time:	12:00	14:00		
Weight:	86.5100	86.5095		86.5098 g
Tare:	86.4891	86.4891	86.4891	86.4891 g
Net Weight		•		20.7 mg

CLIENT:

OCSD

ANALYST: GS

REPORT#:

2061.1014

METHOD: CARB Method 5

TEST DATE:

06/17/04

LOCATION/UNIT:

Detroit Diesel (New)

RUN#

PM-2

PROBE AND NOZZLE WASH

Sample Volume:

205 ml

Aliquot:

205 ml

Evaporation Dish:

E60

	1	2	3	Average
Date:	06/21/04	06/23/04		
Time:	12:00	14:00		
Weight:	103.0922	103.0925		103.0924 g
Tare:	103.0816	103.0816	103.0816	103.0816 g
Net Weight		•	•	10.8 mg

FILTER

Filter Number:

110- 0135

	I	2	3	Average	
Date:	06/21/04	06/23/04			
Time:	12:00	14:00			
Weight:	0.5100	0.5102		0.5101 g	
Tare:	0.4960	0.4960	0.4960	0.4960 g	
Net Weight				14.1 m	g

CONDENSABLE PARTICULATE

Sample Volume:

440 ml

Aliquot:

440 ml

Evaporation Dish:

	i	2	3	Average	•
Date:	06/21/04	06/23/04			
Time:	12:00	14:00		1	
Weight:	98.6283	98.6280		98.6282 g	5
Tare:	98.6014	98.6014	98.6014	98.6014 g	
Net Weight					ng

CLIENT:

OCSD

ANALYST: GS

REPORT#:

2061.1014

METHOD: CARB Method 5

TEST DATE: .

06/15/04

LOCATION/UNIT:

BLANKS

RUN#

ACETONE BLANK

Sample Volume:

150 ml

Aliquot:

150 ml

Evaporation Dish:

E64

-	1	2	3	Average
Date:	06/21/04	06/23/04		
Time:	12:00	14:00		
Weight:	103.0096	103.0091		103.0094 g
Tare:	103.0094	103.0094	103.0094	103.0094 g
Net Weight				0.0 mg

DI H2O BLANK

Sample Volume:

200 ml

Aliquot:

200 ml

Evaporation Dish:

	1 2 3		Ayerage	
Date:	06/21/04	06/23/04		
Time:	12:00	14:00		
Weight:	99.9374	99.9375		99.9375 g
Tare:	99.9370	99.9370	99,9370	99.9370 g
Net Weight				0.5 mg

- 7:30 a.m. and 4:30 p.m. on days when school is in session, until control equipment is in place, when the hours would be between 7:30 a.m. and 3:30 p.m.; and
- (iii) An engine that is located more than 100 meters (328 feet) and less than or equal to 500 feet from a school shall not be operated for non-emergency use between the hours of 7:30 a.m. and 3:30 p.m. on days when school is in session. An engine that emits diesel PM at a rate of 0.01 g/bhp-hr or less is not subject to this restriction.
- (3) (C) Except as provided in subdivision (h), no owner or operator of an in-use; stationary emergency standby diesel-fueled CI engine (> 50 hp) shall operate the engine in the South Coast Air Quality Management District unless it meets, in accordance with the applicable compliance schedules specified in subdivision (e), the following requirements:
 - (i) Diesel PM Standard and Hours of Operating Requirements

 The owner or operator of in-use stationary emergency standby diesel-fueled engines (>50 bhp), except those located on school grounds or 100 meters or less from an existing, as of April 2, 2004, school shall meet the following requirements:
 - (I) No owner or operator shall operate an in-use stationary emergency standby diesel-fueled CI engine (>50 bhp) that emits diesel PM at a rate greater than 0.40 g/bhp-hr more than 20 hours per year for maintenance and testing purposes. In-use emergency standby diesel fueled CI engines operated at health facilities shall be allowed up to 10 additional hours per year for maintenance and testing purposes. This section does not limit engine operation for emergency use and for emission testing to show compliance with subparagraph (c)(3)(C).
 - (II) No owner or operator shall operate an in-use stationary emergency standby diesel-fueled CI engine (>50 bhp) that emits diesel PM at a rate less than or equal to 0.40 g/bhp-hr more than 30 hours per year for maintenance and testing purposes, except as provided in clause (c)(3)(C)(ii). This subclause does not limit engine operation for emergency use and for emission testing to show compliance with subparagraph (c)(3)(C).

(ii) Alternative Diesel PM Standard and Hours of Operating Requirements

The Executive Officer may allow the owner or operator of an in-use emergency standby diesel-fueled CI engine (> 50 hp), except those located on school grounds or 100 meters or less from an existing, as of April 2, 2004, school, to operate more than 30 hours per year for maintenance and testing purposes on a site-specific basis, provided the following limits are met:

- (I) Up to 50 annual hours of operation are allowed for maintenance and testing purposes if the diesel PM emission rate is less than or equal to 0.15 g/bhp-hr:
 - (II) Up to 400 annual shours of operation are allowed for maintenance and testing purposes if the diesel PM emission rate is less than or equal to 0.01 g/bhp-hr.
- (iii) Diesel PM Standards and Hours of Operating Requirements For In-Use Stationary Emergency Standby Diesel-Fueled Engines (>50 Bhp) Located on School Grounds or 100 Meters or Less from an Existing, as of April 2, 2004, Schools

All in-use emergency diesel-fueled CI engines (> 50 bhp), subject to this clause, certified in accordance with the Off-Road Compression-Ignition Engine Standards (Title 13, CCR, Section 2423) shall comply with either option 1 or option 2 below. All engines not certified in accordance with the Off-Road Compression-Ignition Engine Standards (Title 13, CCR, Section 2423) shall comply with option 1, option 2, or option 3 below:

- (I) Option 1: Reduce the diesel PM emission rate by at least 85 percent, by weight, from the baseline level, in accordance with the appropriate compliance schedule specified in subdivision (e) and operate 75 hours or less per year for maintenance and testing purposes. This subclause does not limit engine operation for emergency use and for emission testing to show compliance with subparagraph (c)(3)(C); or
- (II) Option 2: Emit diesel PM at a rate less than or equal to 0.01 g/bhp-hr in accordance with the appropriate compliance schedule as specified in subdivision (e) and operate 100 hours or less per year for maintenance and testing purposes.

TERRY AHN
ORANGE COUNTY SANITATION DISTRICT
P O BOX 8127
FOUNTAIN VALLEY, CA 92728

Facility ID: 29110

Located at: 22212 BROOKHURST ST, HUNTINGTON BEACH

Thank you for filing your application(s) with the South Coast Air Quality Management District (AQMD).

The application number(s) assigned by AQMD to your application package(s) is/are on Page 2 of this letter. Please refer to the information on Page 2 when contacting AQMD for assistance. The information you submitted with your application(s) or in your latest submittal is complete to the extent that allows us to begin processing of your application(s), however some clarifying data may still be needed. The acceptance of your application(s) does not imply that permit(s) has/have been approved. The engineer assigned to process your application(s), as indicated below, may contact you if additional information is required.

If you have any question or need additional information about your application(s), please contact the engineer listed below:

Engineer: Gaurang Rawal **Telephone:** (909) 396 - 2543

For general information about AQMD's permitting process, please call (909) 396-2468.

cc: Application file(s)

AQMD PERMIT APPLICATION INFORMATION

(Please refer to this information when contacting AQMD for Assistance)

10/31/2007

Facility ID: 29110

Application Number (s)	r Equipment Descri	ption ,素质二氯化	A.
474766	I C E (>500 HP) EM ELEC GEN DIESEL	Catt. 1482BHP	_ 17
474767	I C E (>500 HP) EM ELEC GEN DIESEL	11 1/	Zden
474768	I C E (>500 HP) EM ELEC GEN DIESEL	11 9	Jeden
474769	I C E (>500 HP) EM ELEC GEN DIESEL	Det. OSL, 2935 BI	<u>4</u> P)
474770	I C E (>500 HP) EM ELEC GEN DIESEL	· (11	Iden

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

ENGINEERING AND COMPLIANCE

APPLICATION PROCESSING AND CALCULATIONS

PAGE	1 of 3	
CHECKED BY:		Ror
A/N:	4	Official
PROCESSED BY:		Use Only
DATE:		

Applicant's Name: Orang	ge County Sanitation District	<u>ID:</u>		
Equipment Location: 22	212 Brookhurst Street, Huntington Beach, CA 9	264		
Equipment Description:				
EQUIPMENT:	INTERNAL COMBUSTION ENGINE	Permit Description:		
MANUFACTURER:	Detroit Diesel	INTERNAL COMBUSTION ENGINE,		
MODEL NO.:	TI63-7K16	Fixed site, Detroit Diesel, MODEL NO. TI63-7K16, SERIAL NO. DD5272000532,		
FUELED WITH:	Diesel Oil No. 2	Diesel Oil No. 2 FUELED, Four CYCLES,		
DRIVING:	Electrical Generator	Sixteen CYLINDERS, Turbocharged/Aftercooled, RATED AT		
SERIAL NO.:	DD5272000531	2935 B.H.P., DRIVING AN EMERGENCY		
CYLINDERS:	Sixteen	Electrical Generator.		
ASPIRATION:	Turbocharged/Aftercooled			
HP RATING:	2935.00			

CALCULATIONS See ATTACHMENT A

EVALUATION:

Rule 212: (Not Applicable if within 1,000 feel of a school.)

This is a not significant project as defined by this rule. Hence, public notice is not required.

Rule 401:

Based on experience with similar equipment, this engine is expected to comply with the visible emission limits.

Rule 402:

Based on experience with similar equipment, nuisance complaints are not expected.

Rule 404:

Based on experience with similar equipment, compliance with this rule is expected.

Rule 431.2:

Diesel fuel supplied to this equipment must contain 0.05% or less sulfur by weight. Compliance is expected.

Rule 1110.2:

Exempt per Rule 1110.2 (i)(2) and (i)(10).

REGULATION XIII:

Exempt per Rule 1301 (b)(3).

REGULATION XIV:

Exempt per Rule 1401 (g)(1)(F).

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT ENGINEERING AND COMPLIANCE WORKSHEET APPLICATION PROCESSING AND CALCULATIONS PAGE 2 of 3 CHECKED BY: A/N: PROCESSED BY: DATE:

CARB-EPA Emission Limits for Nonroad Compression-Ignited Engines:

For engine manufacture date on or after 01/01/1999 and engine rating between ______, the following emission limits apply:

	NOX ROG CO PM	
Required		
Actual		
Compliance		

CONDITIONS

- 1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED.
- 2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITIONS AT ALL TIMES.
- SULFUR CONTENT OF DIESEL FUEL SUPPLIED TO THE ENGINE SHALL NOT EXCEED 0.05% BY WEIGHT.
- 4. THIS ENGINE SHALL NOT OPERATE MORE THAN 200 HOURS IN ANY ONE YEAR.
- 5. THIS ENGINE SHALL NOT OPERATE MORE THAN 50 HOURS IN ANY ONE YEAR FOR MAINTENANCE AND TESTING PURPOSES.
- 6. AN OPERATIONAL NON-RESETTABLE TOTALIZING TIME METER SHALL BE INSTALLED AND MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.
- 7. AN ENGINE OPERATING LOG LISTING THE DATE OF OPERATION AND THE ELAPSED TIME, IN HOURS, AND THE REASON FOR OPERATION SHALL BE KEPT AND MAINTAINED ON FILE FOR A MINIMUM OF TWO YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
- 8. IN ADDITION TO MAINTENANCE AND TESTING OF THIS ENGINE, THIS ENGINE SHALL ONLY BE USED FOR EITHER PROVIDING ELECTRICAL POWER TO PORTABLE OPERATIONS OR EMERGENCY POWER TO STATIONARY SOURCES. PORTABLE OPERATIONS ARE THOSE WHERE IT CAN BE DEMONSTRATED THAT BECAUSE OF THE NATURE OF THE OPERATION. IT IS NECESSARY TO PERIODICALLY MOVE THE EQUIPMENT FROM ONE LOCATION TO ANOTHER. EMERGENCIES AT STATIONARY SOURCES ARE THOSE THAT RESULT IN AN INTERRUPTION OF SERVICE OF THE PRIMARY POWER SUPPLY OR DURING STAGE II OR III ELECTRICAL EMERGENCIES DECLARED BY THE CALIFORNIA INDEPENDENT SYSTEM OPERATOR.

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT ENGINEERING AND COMPLIANCE APPLICATION PROCESSING AND CALCULATIONS PAGE 3 of 3 CHECKED BY: A/N: PROCESSED BY: DATE:

- 9. UPON THE FIFTH DAY AFTER PLACEMENT OF THIS EQUIPMENT INTO OPERATION AT A NEW SITE, THE DISTRICT SHALL BE NOTIFIED VIA TELEPHONE AT 1-877-810-6995 OF THE EXACT NATURE OF THE PROJECT AS FOLLOWS:
 - A. THE PERMIT NUMBER OF THE PORTABLE EQUIPMENT.
 - B. THE NAME AND TELEPHONE NUMBER OF A CONTACT PERSON.
 - C. THE LOCATION WHERE THE PORTABLE EQUIPMENT WILL BE OPERATED.
 - D. THE ESTIMATED TIME THE PORTABLE EQUIPMENT WILL BE LOCATED AT THE SITE.
 - E. DESCRIPTION OF THE PROJECT.
 - F. IF LESS THAN 1/4 MILE, THE DISTANCE TO THE NEAREST SENSITIVE RECEPTOR. SENSITIVE RECEPTORS ARE DEFINED AS LONG-TERM HEALTH CARE FACILITIES, REHABILITATION CENTERS, CONVALESCENT CENTERS, RETIREMENT HOMES, RESIDENCES, SCHOOLS, PLAYGROUNDS, CHILD CARE CENTERS, AND ATHLETIC FACILITIES.
- 10. THIS ENGINE AND ITS REPLACEMENT UNIT INTENDED TO PERFORM THE SAME OR SIMILAR FUNCTION, SHALL NOT RESIDE AT ANY ONE LOCATION FOR MORE THAN 12 CONSECUTIVE MONTHS. THE PERIOD DURING WHICH THE ENGINE AND ITS REPLACEMENT IS MAINTAINED AT A STORAGE FACILITY SHALL BE EXCLUDED FROM RESIDENCY TIME DETERMINATION.
- 11. THIS ENGINE SHALL NOT BE REMOVED FROM ONE LOCATION FOR A PERIOD OF TIME, AND THEN IT OR ITS EQUIVALENT ENGINE RETURNED TO THE SAME LOCATION, IN ORDER TO CIRCUMVENT THE PORTABLE ENGINE RESIDENCE TIME REQUIREMENTS.

INVOICE NO.	INVOICE	DESCRIPTION	GROSS AMOUNT	DISC ADJ.	PAYMENT AMOUN
SCAQMD PERMIT # F21753	09/04/07	SCAQMD Permit No. F217	923.92		923.92



ORANGE COUNTY SANITATION DISTRICT
P.O. Box 8127 • Fountain Valley, CA 92728-8127

PERMIT # F21753



7

012H16502601

\$CC.750

10/17/2007

Mailed From 92708 US POSTAGE

South Coast Air Quality
Management District
P.O. Box 4944
Diamond Bar CA 91765

Si SEOSAA RECE

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